PB87-110409

Characteristics of Lakes in the Eastern United States. Volume 3 Data Compendium of Site Characteristics and Chemical Variables

(U.S.) Environmental Protection Agency
Washington, DC

Jun 86

U.S. Department of Commerce
National Technical Information Service
NTIS

TECHNICAL REPORT DATA

(Please read Instructions on the reverse before completing)

1. REPORT NO.
EPA/600/4-87/007c

2.

3. RECIPIENT'S ACCESSION NO.
PB87 110409/AS

4. TITLE AND SUBTITLE
CHARACTERISTICS OF LAKES IN THE EASTERN UNITED STATES: Volume III. Data Compendium of Site Characteristics and Chemical Variables

5. REPORT DATE
June 1986

6. PERFORMING ORGANIZATION CODE

7. AUTHOR(S)
See page ii of report

8. PERFORMING ORGANIZATION REPORT NO.

9. PERFORMING ORGANIZATION NAME AND ADDRESS

10. PROGRAM ELEMENT NO.

11. CONTRACT/GRANT NO.
68-03-3249; 68-03-3050; 68-02-3889; 68-03-3246;IAG40-1441-84

12. SPONSORING AGENCY NAME AND ADDRESS
Office of Acid Deposition, Environmental Monitoring,
and Quality Assurance, ORD
U.S. Environmental Protection Agency
Washington, DC 20460

13. TYPE OF REPORT AND PERIOD COVERED

14. SPONSORING AGENCY CODE
EPA/600/19

15. SUPPLEMENTARY NOTES
EPA/600/4-86/007a (Volume I); EPA/600/4-86/007b (Volume II)

16. ABSTRACT

A water sample was collected from each of 1612 lakes. This subset of lakes was selected from within three regions of the eastern U.S. (the Northeast, Upper Midwest and Southeast) expected to exhibit low buffering capacity. Each region was divided in subregions. Subregions were further stratified by alkalinity map class.

A suite of chemical variables and physical attributes thought to influence or be influenced by surface water acidification was measured for each lake. The results of these measurements and data analyses are described. They comprise the Eastern Lake Survey - Phase I data base.

17. KEY WORDS AND DOCUMENT ANALYSIS

a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group

18. DISTRIBUTION STATEMENT
RELEASE TO PUBLIC

19. SECURITY CLASS *(This Report)*
UNCLASSIFIED

20. SECURITY CLASS *(This page)*
UNCLASSIFIED

21. NO. OF PAGES
454

22. PRICE

EPA Form 2220-1 (Rev. 4-77) PREVIOUS EDITION IS OBSOLETE

PB87-110409

United States
Environmental Protection
Agency

Office of Research
and Development
Washington DC 20460

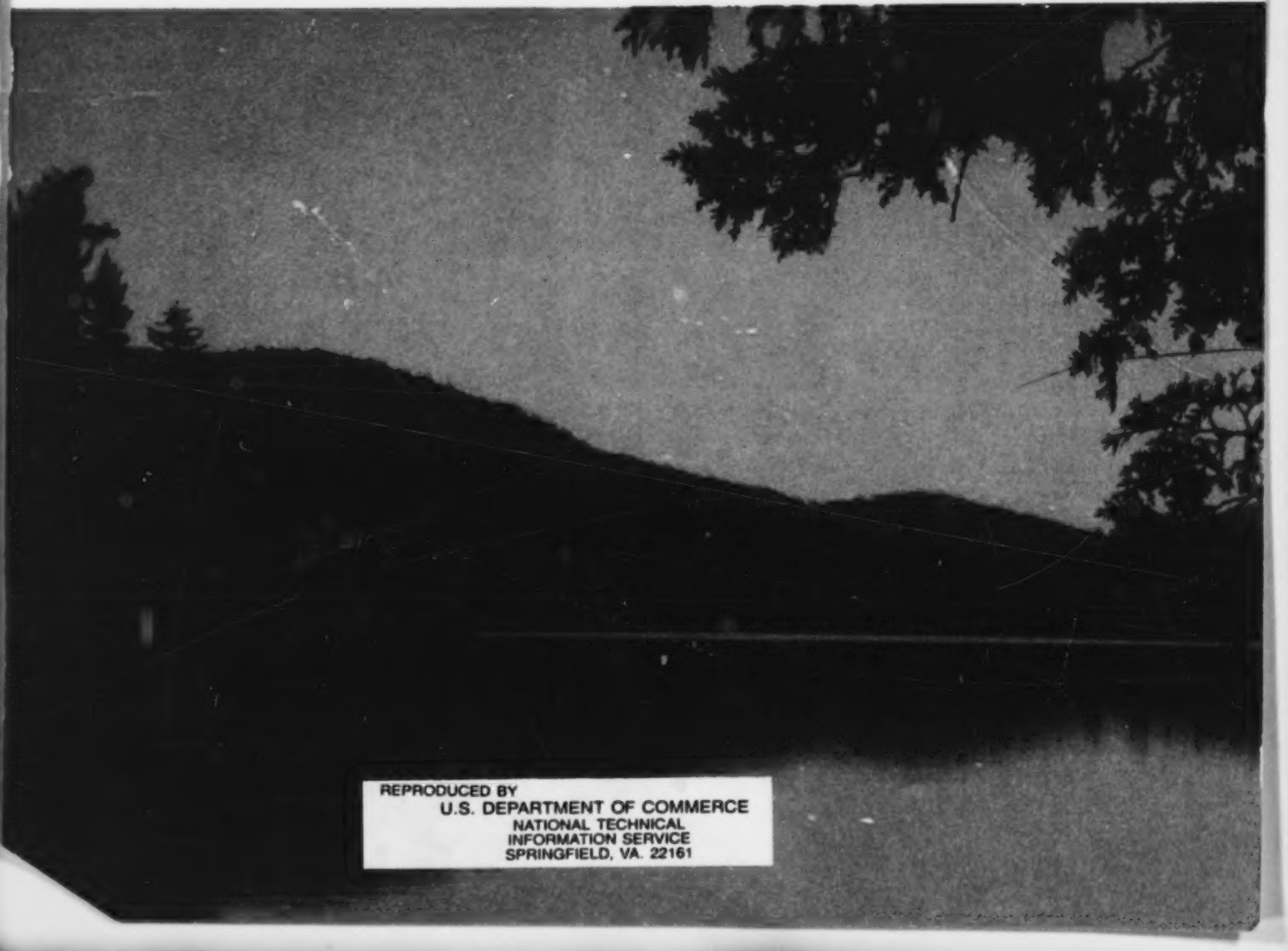
EPA/600/4-86/007c
June 1986

Acid Deposition Aquatic Effects Research Program

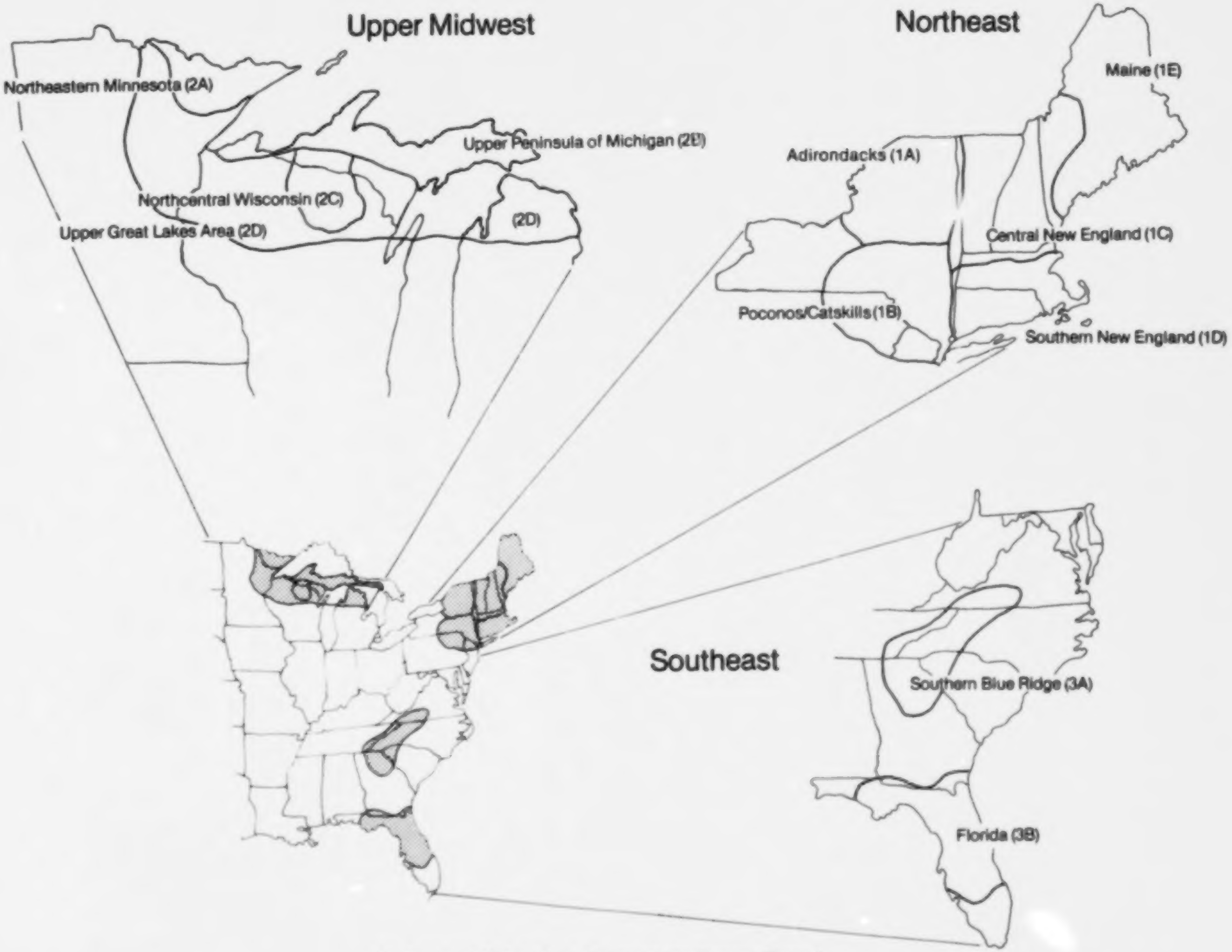
EPA

Characteristics of Lakes in the Eastern United States

Volume III. Data Compendium of Site Characteristics and Chemical Variables



REPRODUCED BY
U.S. DEPARTMENT OF COMMERCE
NATIONAL TECHNICAL
INFORMATION SERVICE
SPRINGFIELD, VA. 22161


Upper Midwest
Northeastern Minnesota (2A)
Upper Peninsula of Michigan (2B)
Northcentral Wisconsin (2C)
Upper Great Lakes Area (2D)
(2D)
Northeast
Maine (1E)
Adirondacks (1A)
Central New England (1C)
Poconos/Catskills (1B)
Southern New England (1D)
Southeast
Southern Blue Ridge (3A)
Florida (3B)

Regions and Subregions, Eastern Lake Survey-Phase I

EPA/600/4-86/007c
June 1986

CHARACTERISTICS OF LAKES IN THE EASTERN UNITED STATES

VOLUME III: DATA COMPENDIUM OF SITE CHARACTERISTICS AND CHEMICAL VARIABLES

By:

P. Kanciruk, J. M. Eilers, R. A. McCord,
D. H. Landers, D. F. Brakke and R. A. Linthurst

A Contribution to the
National Acid Precipitation Assessment Program

U. S. Environmental Protection Agency
Office of Research and Development, Washington, D. C. 20460
Environmental Research Laboratory, Corvallis, Oregon 97333
Environmental Monitoring Systems Laboratory, Las Vegas, Nevada 89109

NOTICE

The information in this document has been funded wholly or in part by the U. S. Environmental Protection Agency under Contract No. 68-03-3249 and 68-03-3050 to Lockheed Engineering and Management Services Company, Inc., No. 68-02-3889 to Radian Corporation, No. 68-03-3246 to Northrop Services, Inc., and Interagency Agreement No. 40-1441-84 with the U. S. Department of Energy. It has been subject to the Agency's peer and administrative review, and it has been approved for publication as an EPA document.

Mention of corporation names, trade names or commercial products does not constitute endorsement or recommendation for use.

Proper citation of this document is as follows:

Linthurst[1], R. A., D. H. Landers[2], J. M. Eilers[3], D. F. Brakke[4], W. S. Overton[5], E. P. Meier[6] and R. E. Crowe[6]. Characteristics of Lakes in the Eastern United States. Volume I: Population Descriptions and Physico-Chemical Relationships. EPA/600/4-86/007a, U. S. Environmental Protection Agency, Washington, D.C., 1986, 136 pp.

Overton, W. S., P. Kanciruk[7], L. A. Hook[8], J. M. Eilers, D. H. Landers, D. F. Brakke, D. J. Blick[3], Jr., R. A. Linthurst, M. D. DeHaan[3], and J. M. Omernik[9]. Characteristics of Lakes in the Eastern United States. Volume II: Lakes Sampled and Descriptive Statistics for Physical and Chemical Variables. EPA/600/4-86/007b, U. S. Environmental Protection Agency, Washington, D.C., 1986, 374 pp.

Kanciruk, P., J. M. Eilers, R. A. McCord[8], D. H. Landers, D. F. Brakke and R. A. Linthurst. Characteristics of Lakes in the Eastern United States. Volume III: Data Compendium of Site Characteristics and Chemical Variables. EPA/600/4-86/007c, U. S. Environmental Protection Agency, Washington, D.C., 1986, 439 pp.

---

[1] U. S. EPA Office of Research and Development, 401 M Street, S.W., Washington, D.C. 20460. Present address: U. S. EPA Environmental Monitoring Systems Laboratory, Mail-Drop 39, Research Triangle Park, North Carolina 27711.

[2] State University of New York, State University Research Center at Oswego, 300 Washington Blvd., Oswego, New York 13126. Present address: U. S. EPA Environmental Research Laboratory, 200 S.W. 35th Street, Corvallis, Oregon 97333.

[3] Northrop Services, Inc., U. S. EPA Environmental Research Laboratory, 200 S.W. 35th Street, Corvallis, Oregon 97333.

[4] Western Washington University, Institute for Watershed Studies, Environmental Sciences Bldg., Room 600, Bellingham, Washington 98225.

[5] Oregon State University, Department of Statistics, Kidder No. 8, Corvallis, Oregon 97331.

[6] U. S. EPA Environmental Monitoring Systems Laboratory, 944 E. Harmon Avenue, Las Vegas, Nevada 89114.

[7] Environmental Sciences Division, Oak Ridge National Laboratory, Post Office Box X, Oak Ridge, Tennessee 37831. Operated by Martin Marietta Energy Systems, Inc., under Contract No. DE-AC05-84OR21400 for the U. S. Department of Energy.

[8] Science Applications International Corporation, 800 Oak Ridge Turnpike, Oak Ridge, Tennessee 37831.

[9] U. S. EPA Environmental Research Laboratory, 200 S.W. 35th Street, Corvallis, Oregon 97333.

Inquiries regarding the availability of the Eastern Lake Survey - Phase I data base should be directed, in writing, to:

Chief, Air Branch
U. S. EPA Environmental Research Laboratory
200 S.W. 35th Street
Corvallis, Oregon 97333

RELATED DOCUMENTS[1]

Anonymous. National Surface Water Survey, National Lake Survey - Phase I, Research Plan. U. S. Environmental Protection Agency, Washington, D.C., (internal document), 1984.

Best, M. D., L. W. Creelman, S. K. Drouse and D. J. Chaloud. National Surface Water Survey, Eastern Lake Survey - Phase I, Quality Assurance Report. EPA/600/4-86/011, U. S. Environmental Protection Agency, Las Vegas, Nevada, 1986.

Drouse, S. K., D. C. J. Hillman, L. W. Creelman, J. F. Potter and S. J. Simon. National Surface Water Survey, Eastern Lake Survey - Phase I, Quality Assurance Plan. EPA/600/4-86/008, U. S. Environmental Protection Agency, Las Vegas, Nevada, 1986.

Eilers, J. M., D. J. Blick, Jr. and M. D. DeHaan. National Surface Water Survey, Eastern Lake Survey - Phase I. Validation of the Eastern Lake Survey - Phase I Data Base. U. S. Environmental Protection Agency, Corvallis, Oregon, 1986.

Hillman, D. C. J., J. F. Potter and S. J. Simon. National Surface Water Survey, Eastern Lake Survey - Phase I, Analytical Methods Manual. EPA/600/4-86/009, U. S. Environmental Protection Agency, Las Vegas, Nevada, 1986.

Kanciruk, P., R. A. McCord, L. A. Hook and M. J. Gentry. National Surface Water Survey, Eastern Lake Survey - Phase I, Data Base Dictionary. Oak Ridge National Laboratory, Technical Manual ORNL, 1986.

Morris, F. A., D. V. Peck, M. B. Bonoff and K. J. Cabble. National Surface Water Survey, Eastern Lake Survey - Phase I, Field Operations Report. EPA/600/4-86/010, U. S. Environmental Protection Agency, Las Vegas, Nevada, 1986.

Overton, W. S. National Surface Water Survey, Eastern Lake Survey - Phase I, Data Analysis Plan. U. S. Environmental Protection Agency, Corvallis, Oregon, 1986.

---

[1] Many of the documents are in draft form at the time of this publication.

VOLUME I CONTENTS

Section Page

NOTICE ii

PREFACE iii

VOLUME II CONTENTS ix

VOLUME III CONTENTS x

FIGURES xi

TABLES xv

RELATED DOCUMENTS xix

CONTRIBUTORS xx

ACKNOWLEDGMENTS xxii

EXECUTIVE SUMMARY xxv

1. INTRODUCTION 1

2. METHODS 3

2.1 DESIGN. 3
2.1.1 Data Quality Objectives. 3
2.1.2 Lake Representation 3
2.1.3 Statistical Design 3
2.1.4 Identification of Study Area 4

2.2 LAKE SELECTION. 4
2.2.1 Delineation of Strata. 4
2.2.2 Development of the Map Population and Frame. . . . 4
2.2.3 Probability Sample 6
2.2.4 Identification and Refinement of Frame Population 6
2.2.5 Special Interest Lakes 9
2.2.6 Final Lake Lists and Maps. 9

VOLUME I CONTENTS (Continued)

Section Page

2.3 APPLICATIONS OF THE DESIGN. 10
2.3.1 Defining the Target Population 10
2.3.2 Estimating the Target Population Size and Associated Variance from Sample Data 11
2.3.3 Subpopulations 12
2.3.4 Restrictions 13

2.4 LAKE CHARACTERIZATION 13
2.4.1 Lake Area and Elevation. 13
2.4.2 Watershed Area 13
2.4.3 Lake Type. 13

2.5 WATER SAMPLE PARAMETERS AND ANALYTICAL METHODOLOGY . . . 14

2.6 FIELD METHODS 14
2.6.1 Site Description 17
2.6.2 In Situ Measurements 17
2.6.3 Collection of Water Samples 17
2.6.4 Field Laboratory Activities 17

2.7 ANALYTICAL SUPPORT 20

2.8 DATA BASE MANAGEMENT. 20
2.8.1 Overview 20
2.8.2 Data Base Design and Data Flow 20
2.8.3 Data Base Structure. 22

3. QUALITY ASSURANCE 23

3.1 PREPARATION FOR THE SURVEY 23

3.2 IMPLEMENTATION OF QUALITY ASSURANCE/QUALITY CONTROL ACTIVITIES 23

3.3 DATA VERIFICATION AND VALIDATION 23
3.3.1 Verification 24
3.3.2 Validation 26

3.4 DEVELOPMENT OF FINAL DATA SET 27

3.5 QUALITY ASSURANCE/QUALITY CONTROL RESULTS 28
3.5.1 Site Confirmation and Characterization 28
3.5.2 Evaluation of QA Sample Data 28

VOLUME I CONTENTS (Continued)

Section Page

4. RESULTS OF POPULATION ESTIMATES 32

4.1 DATA PRESENTATION AND CONSIDERATIONS 32
4.1.1 Presentation 32
4.1.2 Design Considerations 32
4.1.2.1 Design Constraints 32
4.1.2.2 Data Quality 33

4.2 DESCRIPTION OF THE TARGET POPULATION. 33
4.2.1 Number of Lakes Sampled 33
4.2.2 Treatment of Large, Shallow and Thermally-Stratified Lakes 35
4.2.3 Target Population and Population Estimates 35

4.3 DESCRIPTIVE STATISTICS AND CUMULATIVE DISTRIBUTIONS . . . 36
4.3.1 Population Distributions 36
4.3.2 Definitions of Descriptive Statistics: Interpretation of F(x) and G(x) Data Output . . . 36
4.3.2.1 Distributions 45
4.3.2.2 Statistics 45
4.3.3 Comparisons of Distributions 46
4.3.4 Interpretation of Alkalinity Map Classes 46

4.4 PHYSICAL CHARACTERISTICS OF REGIONAL LAKE POPULATIONS . . 49
4.4.1 Northeast 49
4.4.2 Upper Midwest 49
4.4.3 Southeast 49
4.4.3.1 Southern Blue Ridge - Subregion 3A . . . 49
4.4.3.2 Florida - Subregion 3B 50

4.5 REGIONAL, SUBREGIONAL AND STATE POPULATION ESTIMATES: ANC AND pH 50
4.5.1 Acid Neutralizing Capacity 50
4.5.1.1 Reference Values 50
4.5.1.2 Northeast 50
4.5.1.3 Upper Midwest 51
4.5.1.4 Southeast 52
4.5.1.5 Estimates by State for ANC. 52
4.5.1.6 Stratified and Shallow Lakes 53

VOLUME I CONTENTS (Continued)

Section Page

4.5.2 pH 55
4.5.2.1 Reference Values 55
4.5.2.2 Northeast 55
4.5.2.3 Upper Midwest 55
4.5.2.4 Southeast 55
4.5.2.5 Estimates by State for pH 55

4.6 REGIONAL AND SUBREGIONAL POPULATION ESTIMATES FOR OTHER PRIMARY VARIABLES 56
4.6.1 Sulfate 56
4.6.2 Calcium 58
4.6.3 Extractable Aluminum 60
4.6.4 Dissolved Organic Carbon 60

4.7 STATISTICS FOR POPULATION DESCRIPTIONS, PRIMARY VARIABLES 62

4.8 STATISTICS FOR POPULATION DESCRIPTIONS, SECONDARY VARIABLES 62
4.8.1 Nutrients 62
4.8.2 True Color, Turbidity and Secchi Disk Transparency 63
4.8.3 Sodium, Potassium and Magnesium 63
4.8.4 Iron, Manganese and Total Aluminum 64
4.8.5 Other Secondary Variables 65

4.9 CHARACTERISTICS OF SPECIAL INTEREST LAKES 65

5. RESULTS AND DISCUSSION OF ASSOCIATIONS AMONG VARIABLES 67

5.1 RELATIONSHIPS OF pH AND ANC 67
5.1.1 Comparison of pH Measurements 67
5.1.2 Relationship between pH and ANC 68
5.1.3 Comparison of Lake Sensitivity Indices 72

5.2 SELECTED ASSOCIATIONS AMONG CHEMICAL VARIABLES 74
5.2.1 Introduction 74
5.2.2 Sulfate 75
5.2.3 Extractable Aluminum 75
5.2.3.1 Background. 75
5.2.3.2 Associations between Extractable Aluminum and Other Variables. 77
5.2.4 ANC Versus Base Cations. 79

VOLUME I CONTENTS (Continued)

Section Page

5.2.5 Major Cations and Anions 84
5.2.5.1 Individual Example Lakes 84
5.2.5.2 Order of Major Ions 86
5.2.5.3 Relationships among Major Ions 91
5.2.6 Dissolved Organic Carbon (DOC) 94
5.2.6.1 Color and DOC 94
5.2.6.2 Anion Deficit 97

5.3 HYDROLOGY 100
5.3.1 Hydrologic Lake Type 100
5.3.2 Hydraulic Residence Time 103

5.4 CHARACTERISTICS OF ACIDIC LAKES 108

6. REGIONAL AND SUBREGIONAL CHARACTERISTICS 110

6.1 NORTHEAST 110
6.1.1 Adirondacks (1A) 111
6.1.2 Catskills/Poconos (1B) 112
6.1.3 Central New England (1C) 112
6.1.4 Southern New England (1D) 113
6.1.5 Maine (1E) 113

6.2 UPPER MIDWEST 114
6.2.1 Northeastern Minnesota (2A) 114
6.2.2 Upper Peninsula of Michigan (2B) 115
6.2.3 Northcentral Wisconsin (2C) 115
6.2.4 Upper Great Lakes Area (2D) 115

6.3 SOUTHEAST 116
6.3.1 Southern Blue Ridge (3A) 116
6.3.2 Florida (3B) 116

7. SUMMARY OBSERVATIONS 119

7.1 OBJECTIVES 119

7.2 EXTENT AND LOCATION OF ACIDIC AND LOW pH LAKES 119
7.2.1 Acidic Lakes 119
7.2.2 Low pH Lakes 119

7.3 EXTENT AND LOCATION OF LOW ANC LAKES 120

VOLUME I CONTENTS (Continued)

Section | Page

7.4 CHEMICAL CHARACTERIZATION 120
  7.4.1 Sulfate 120
  7.4.2 Calcium 120
  7.4.3 Extractable Aluminum 120
  7.4.4 Dissolved Organic Carbon 121
  7.4.5 Major Cations and Anions 121

7.5 FUTURE STUDIES 121

8. REFERENCES 123

9. GLOSSARY 130

VOLUME II CONTENTS

Section | Page
NOTICE ii

RELATED DOCUMENTS iv

VOLUME I CONTENTS v

VOLUME III CONTENTS xii

FIGURES xiii

TABLES xxiii

1. INTRODUCTION 1

2. DESCRIPTIONS/DEFINITIONS OF PARAMETERS 4

3. MAPS SHOWING LAKE LOCATIONS 11

4. REGULAR LAKES SORTED BY LAKE ID 34

5. REGULAR LAKES SORTED BY STATE AND LAKE NAME 89

6. SPECIAL INTEREST LAKES SORTED BY LAKE ID 144

7. SPECIAL INTEREST LAKES SORTED BY STATE AND LAKE NAME 152

8. USGS TOPOGRAPHIC MAPS 160

   8.1 Small-Scale Maps 160
   8.2 Large-Scale Maps 160

9. POPULATION ESTIMATES FOR SELECTED PHYSICAL AND CHEMICAL VARIABLES 187

   9.1 Applications of the Design 187
      9.1.1 Defining the Target Population 187
      9.1.2 Estimating the Target Population Size and Associated Variance from Sample Data 188
      9.1.3 Subpopulations 190
      9.1.4 Restrictions 192

   9.2 Descriptive Statistics and Cumulative Distributions 192
      9.2.1 Population Distributions 193
      9.2.2 Definitions of the Descriptive Statistics: Interpretation of F(x) and G(x) Data Output 193
         9.2.2.1 Distributions 194
         9.2.2.2 Statistics 195

VOLUME III CONTENTS

Section . . . Page

NOTICE . . . ii

RELATED DOCUMENTS . . . iv

VOLUME I CONTENTS . . . v

VOLUME II CONTENTS . . . xi

1. INTRODUCTION . . . 1

2. DESCRIPTIONS/DEFINITIONS OF PARAMETERS . . . 3

3. DATA FOR INDIVIDUAL REGULAR LAKES SORTED BY LAKE ID . . . 13

4. DATA FOR INDIVIDUAL SPECIAL INTEREST LAKES SORTED BY LAKE ID . . . 337

APPENDICES

APPENDIX A . . . 377

APPENDIX B . . . 432

SECTION 1

INTRODUCTION

The Eastern Lake Survey - Phase I (ELS-I) was conducted in the fall of 1984 by the U. S. Environmental Protection Agency as part of the National Acid Precipitation Assessment Program. The primary goal of the ELS-I was to develop a geographically extensive data base that could be used as an initial framework to quantify the extent and chemical status of lakes potentially at risk due to the effects of acidic deposition. The design of the Survey emphasized that characteristics of *populations* of lakes, and not *individual* systems, were to be described, in accordance with the Survey's primary goal.

During the ELS-I, a single sample was collected from each lake once during the fall (Volume I, Section 2.1.2). While it is obvious that a single sample cannot be used to characterize the complex chemical dynamics of a lake, the number of lakes that were sampled and the geographically extensive spatial coverage were maximized. Because the essence of the collective objectives of the ELS-I was to characterize populations of lakes, a single sample was deemed appropriate.

This volume (Volume III) is part of a three-volume report entitled *Chemical Characteristics of Lakes in the Eastern United States*. The purpose of this volume is to present additional data that were not shown in Volumes I or II. The data for individual lakes that were part of the probability sample ("regular" lakes; Volume I, Section 2.2.3) are shown in Section 3. Data collected from lakes that were included in the Survey because of special interest and that were not part of the probability sample ("special interest"; Volume I, Section 2.2.5), are presented in Section 4.

These data for individual lakes should be interpreted only insofar as any other data based on a single sample can be interpreted. To use these data in inferring characteristics of lake populations requires that the

Survey design be appropriately applied. Because of the design requirement, the data presented in this volume must be viewed only as an index to the chemistry of the individual lake. Furthermore, the data for special interest lakes cannot be used to draw conclusions about lake populations because these lakes were not selected as part of the probability sample (Volume I, Section 2.2.3). Appendix A contains a list of the probability sample lakes sorted by state and lake name and Appendix B contains a similar list of the special interest lakes.

SECTION 2

DESCRIPTIONS/DEFINITIONS OF PARAMETERS

To satisfy the objectives of the ELS-I, a number of physical and chemical parameters were measured using standardized protocols (Volume I, Sections 2.4 through 2.7). These parameters were selected to provide a geographically extensive data base from which the extent and chemical status of lakes at risk due to acidic deposition could be assessed. In addition to the parameters listed in Volume II, Section 2 (Table 2-1), the ELS-I data base contains a number of other chemical and physical parameters derived from the calculation of measured values. Some chemical parameters were measured using more than one method of analysis (Volume I, Sections 2.6 and 5.1.1). The data base also includes information concerning lake type (Volume I, Section 2.4.3), sample type (from either a "regular" or "special interest" lake) and stratification status (Volume I, Section 2.6.2).

Table 2-1 contains an alphabetical listing of the variables reported in this volume for individual regular and special interest lakes. The units, the variable names as they appear in the data base and brief definitions and/or descriptions of the methods used are also included. More extensive descriptions are given in Volume I, Section 2 and in Hillman et al. (1986).

TABLE 2-1. DESCRIPTION/DEFINITION OF PARAMETERS

Parameter (unit)*	Data Base Name	Description/Definition
ANC (ueq L^{-1})	ALKA11	Acid neutralizing capacity is a measure of the amount of acid necessary to neutralize the bicarbonate, carbonate, hydroxyl, and other bases in a sample. Acid neutralizing capacity was measured in the analytical laboratory in an unfiltered, unacidified aliquot, using acidimetric titration and modified Gran analysis (Hillman et al. 1986; Kramer 1984).
Ca (ueq L^{-1})	CA16	Calcium was measured in the analytical laboratory in a filtered, acidified (HNO_3) aliquot (EPA 215.1, AAS, flame). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
Cal. Cond. (uS cm^{-1})	CONCAL	Calculated conductance is the product of ion concentration and equivalent conductance summed over all ions measured. It is calculated here as: $[(Ca*59.47) + (Mg*53.0) + (K*73.48) + (Na*50.08) + (NH_4*73.5) + (H*349.65) + (SO_4*80.0) + (HCO_3*44.5) + (Cl*76.31) + (NO_3*71.42) + (F*55.4) + (CO_3*69.3) + (OH*198)] \div 1000$. This calculation converts units from ueq L^{-1} to uS cm^{-1}. $[H^+]$ is computed from PHAC the open system pH measurement at the initiation of the acidity titration.
Cations/Anions	ANCAT	Cations/anions is the sum of measured cations divided by the sum of measured anions.

---

[*] Parameter names shown here are consistent with those shown in Tables 3-1 and 4-1. Names shown in Volume II, Section 2 differ slightly for some variables. When cross-referencing between this table and that shown in Volume II, the data base name should be used.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Cl (ueq L^{-1})	CL16	Chloride ion was measured in the analytical laboratory in an aliquot from a filtered, unacidified sample (ASTM 1984; O'Dell et al. 1984, ion chromatographic methods). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
Closed DIC (mg L^{-1})	DICVAL	Dissolved inorganic carbon was measured in the field laboratory. The sample was drawn directly into a syringe from the Van Dorn water sampler at the lake site, filtered, and analyzed, without exposure to the atmosphere, using a Dohrmann model DC-80 carbon analyzer with an infrared spectrophotometric detector (EPA 415.2, modified).
Closed pH	PHSTVL	Closed system pH was measured in the field laboratory using an Orion model 611 meter and an Orion Ross combination pH electrode in a syringe sample unexposed to the atmosphere (EPA 150.1).
Color (PCU)	COLVAL	True color is a measure of the dissolved and colloidal substances in water that reduce light transmission. True color was measured in the field laboratory in a centrifuged aliquot (to remove particles), using a Hach model CO-1 Comparator (EPA 110.2, modified).
Date	DATSMP	Date sampled is the date on which the lake sample was collected.
DOC (mg L^{-1})	DOC11	Dissolved organic carbon was measured in the analytical laboratory in a filtered, acidified (H_2SO_4) aliquot (EPA 415.2, infrared spectrophotometric detector).

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Elevation (m)	ELEV	Elevation of the lake surface was determined from USGS topographic maps or was estimated from topographic contour lines.
Equil. DIC (mg L^{-1})	DICE11	Air-equilibrated dissolved inorganic carbon was measured in the analytical laboratory in an unfiltered, unacidified aliquot bubbled with 300 ppm CO_2, drawn into a syringe, filtered, and analyzed without exposure to the atmosphere (EPA 415.2 modified, infrared spectrophotometric detector).
Equil. pH	PHEQ11	Air-equilibrated pH was measured in the analytical laboratory in an unfiltered, unacidified aliquot bubbled with 300 ppm CO_2 (EPA 150.1, electrode).
Ext. Al (ug L^{-1})	ALEX11	Extractable aluminum is an estimate of labile, monomeric aluminum. Aluminum in an unacidified, filtered sample was complexed with 8-hydroxyquinoline and extracted with methyl-isobutyl ketone (MIBK) in the field laboratory. The extract was analyzed in the analytical laboratory using the method described in Hillman et al. (1986). Values were converted from mg L^{-1} to ug L^{-1} for data analysis.
F (ueq L^{-1})	FTL16	Total dissolved fluoride was measured in the analytical laboratory in a filtered, unacidified aliquot, using an ion-selective electrode (ISE, EPA 340.2, modified). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Fe (ug L^{-1})	FE11	Dissolved iron was measured in the analytical laboratory, in a filtered, acidified (HNO_3) aliquot (EPA 236.1, AAS, flame). Values were converted from mg L^{-1} to ug L^{-1} for data analysis.
HCO_3 (ueq L^{-1})	HCO316	Bicarbonate is estimated as follows: HCO316 = 61,017*(DICI11/12,011)* ALPHA1*16.39; where ALPHA1 = ((10**(-PHAC11))*K1)/((10**(-PHAC11))**2 + (10**-PHAC11)*K1 + K1*K2); where K1 = 4.3E-07 AND K2 = 5.61E-11, DICI11 is the unequilibrated DIC, and PHAC11 is the initial acidity titration pH.
Hydro. Type	HYDROTYP	Hydro. type is the lake hydrologic type, determined from USGS topographic maps: SEEPAGE--has no inlet(s) or outlet(s) DRAINAGE--has outlet(s) CLOSED--has inlet(s) but no outlet(s) RESERVOIR--manmade impoundment
ID	LAKE_ID	Lake ID is a seven-character, unique identification code assigned to each lake. The first character is a digit representing the region (1, 2, or 3); the second is a letter indicating the subregion; the third is a digit, giving the alkalinity map class; and the fourth, a dash. The last three digits are the assigned lake number.
K (ueq L^{-1})	K16	Dissolved potassium was measured in the analytical laboratory in a filtered, acidified (HNO_3) aliquot (EPA 258.1, AAS, flame). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Lake Area (ha)	LAKE_SIZ	Lake surface area was measured on large scale USGS topographic maps using an electronic planimeter.
Latitude	LAT	Latitude was read from the USGS topographic maps in DD-MM-SS (degrees-minutes-seconds) format.
Longitude	LONG	Longitude was read from the USGS topographic maps in DDD-MM-SS format.
Meas. Cond. (uS cm^{-1})	COND11	Conductance is a measure of the resistance of a water sample to an electrical current. Conductance was measured in the analytical laboratory using a conductivity cell (EPA 120.1).
Mg (ueq L^{-1})	MG16	Dissolved magnesium was measured in the analytical laboratory in a filtered, acidified (HNO_3) aliquot (EPA 242.1, AAS, flame or furnace). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
Mn (ug L^{-1})	MN11	Dissolved manganese was measured in the analytical laboratory in a filtered, acidified (HNO_3) aliquot (EPA 243.1, AAS, flame). Values were converted from mg L^{-1} to ug L^{-1} for data analysis.
Na (ueq L^{-1})	NA16	Dissolved sodium was measured in the analytical laboratory in a filtered, acidified (HNO_3) aliquot (EPA 273.1, AAS, flame). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Name	LAKENAME	Lake name was taken from the USGS topographic maps or, in some cases, substituted with more recent information from state sources. When a number of small water bodies were identified by only one name on the map, a qualifier was added to the name, such as "southern," to identify the lake sampled. When no name was listed, "(NO NAME)" was entered into the data base as the lake name.
NH_4 (ueq L^{-1})	NH416	Ammonium ion was measured in the analytical laboratory in an unfiltered, acidified (H_2SO_4) aliquot (EPA 350.1, colorimetric, automated). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
NO_3 (ueq L^{-1})	NO316	Nitrate ion was measured in the analytical laboratory in a filtered, unacidified aliquot, using ion chromatography (ASTM 1984; O'Dell et al. 1984). Samples taken before November 2, 1984, were analyzed in a slightly different manner (see Volume I, Section 3.5.2). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
Residence Time (yr)	RT	Residence time is the estimated hydraulic residence time, defined as years required to replace the volume of the lake. RT = ((LAKE_SIZ*1.E4)*(SITDPM*0.464))/(((RUNIN*2.54E-2)*((WSHED*1.E4) - (LAKE_SIZ*1.E4))) + ((LAKE_SIZ*1.E4)*PRECIP)). Residence time was not computed for seepage lakes, closed lakes, or lakes located in Subregion 3B (Florida) and such lakes are identified with an asterisk.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Sample Type	REG_SPC	Sample type indicates whether the lake sampled was obtained from a regular or special interest lake. Lake sample type: REGULAR lakes were part of the probability sample. REG/SPC/XXX designates lakes that were part of the probability sample, but also were identified as special interest lakes. The 'XXX' indicates reason for special interest. LTM = an EPA long-term monitoring lake; NRC = suggested by the National Research Council; DEW = suggested by the State of New Jersey; DER = suggested by the State of Florida.
Secchi Depth (m)	SECMEAN	Secchi disk transparency was determined by averaging the depths of Secchi disk disappearance and reappearance. When the Secchi disk was visible on the lake bottom, that value was entered.
SiO_2 (mg L^{-1})	SIO211	Silica was measured in the analytical laboratory in an unfiltered aliquot (USGS I-2700-78, colorimetric, molybdate blue, automated method).
Site Depth (m)	SITDPM	Site depth is the depth in meters of the sampling site, measured using a weighted line, and is not necessarily the maximum lake depth.
SO_4 (ueq L^{-1})	SO416	Sulfate ion was measured in the analytical laboratory in the filtered aliquot, using ion chromatography (ASTM 1984; O'Dell et al. 1984). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
State	ST	State is the state in which the lake is located, indicated as the standard two-character postal state abbreviation.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Stratified	STRAT**	Stratified indicates whether the sampled lake was mixed (MIXED), strongly (STRONG) stratified or weakly (WEAK) stratified. The stratification status was determined as follows: MIXED indicates lakes where the difference between top temperature and bottom temperature was <4°C. STRONG indicates lakes with a temperature difference >4°C between the top temperature and the temperature at 60 percent depth. WEAK indicates lakes where the temperature difference between top and bottom was >4°C but <4°C between top and the 60 percent-depth temperature.
Sum Anions (ueq L^{-1})	ANSUM	The sum of anions was calculated for measured anions as: $HCO_3^- + CO_3^{-2} + Cl^- + NO_3^- + SO_4^{-2} + F^- + OH^-$
Sum Cations (ueq L^{-1})	CATSUM	The sum of cations was calculated for measured cations as: $Ca^{+2} + Mg^{+2} + K^+ + Na^+ + NH_4^+ + H^+$ [where H^+ is calculated from the open system pH measured at the beginning of the acidity titration (PHAC)].
Surface Temp.	TMPTOP	Surface temperature is the lake water temperature at 1.5 m, measured using the Hydrolab model 4041 probe from the helicopter.
Tot. Al (ug L^{-1})	ALTL11	Total aluminum was measured in the analytical laboratory in an unfiltered, acidified (HNO_3) aliquot (EPA 202.2, AAS, atomic absorption spectroscopy, graphite furnace). Values were converted from mg L^{-1} to ug L^{-1} for data analysis.

** Not to be confused with the term strata in the ELS-I design.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Tot. P (ug L^{-1})	PTL11	Total phosphorous was measured in the analytical laboratory in an unfiltered, acidified (H_2SO_4) aliquot, using either of two automated, colorimetric, phosphomolybdate methods: for normal phosphorus levels, using a 15-mm absorption cell, or for low levels, a preliminary method using a 50-mm absorption cell (USGS I-4600-78). Values were converted from mg L^{-1} to ug L^{-1} for data analysis.
Turbidity (NTU)	TURVAL	Turbidity was measured in the field laboratory, using a Monitek model 21 nephelometer, reported in nephelometric turbidity units (EPA 180.1).
WA/LA	WALA	WA/LA is the ratio of watershed area to lake area.
Watershed Area (ha)	WSHED	Watershed area, which includes lake area, was measured on large scale USGS topographic maps using an electronic planimeter.

SECTION 3

DATA FOR INDIVIDUAL REGULAR LAKES SORTED BY LAKE ID

The data for individual regular lakes selected as part of the probability sample in the ELS-I are presented in Table 3-1, sorted by the unique lake identification (Lake ID) code (Volume I, Section 2.2.2), shown for each entry in the upper left hand corner. The list of regular lakes, also sorted by lake ID, is given in Appendix A; the state in which each lake is located, the geographical coordinates of the lake, and the name and size of the map used to locate and characterize the lake are also given. Alphabetical listings of the probability sample lakes are shown in Volume II, Section 5.

The values shown in Table 3-1 represent the data as they appear in the final ELS-I data set (Data Set 4; Volume I, Section 3.4). These values were used to compute the population estimates given in Volumes I and II (Sections 4 through 7 and Section 9, respectively) with the algorithms specified in the Survey design (Volume I, Section 2.3.2).

The raw data for the variables presented here have been modified; for both regular and special interest lakes:

- negative values measured for variables other than ANC have been set to zero;
- nine missing values have been substituted with synthetic values;
- eighty-three suspected analytical errors have been replaced with synthetic values; and
- measurements for 124 duplicate lake samples have been averaged (Volume I, Section 3.4 and Eilers et al. 1986).

Individuals wishing to use unmodified data should request the validated data set (Data Set 3, described in Volume I, Section 3.3.2). Information on availability of all data is provided in the Notice (page ii).

TABLE 3-1. REGULAR LAKES SORTED BY LAKE ID

```
ID: 1A1-003   Name: HAWK POND                       State: NY  Date: 25OCT84
Sample Type: REGULAR          Latitude: 43-57'25"N   Longitude: 74-57'30"W
Elevation:  645   Surface Temp: 11.5  Stratified: MIXED     Site Depth:   7.3
Lake Area:      13 Watershed Area:       96 WA/LA:      7.5 Hydro Type: DRAINAGE
Residence Time:  0.58  Secchi Depth:  5.5   Turbidity:   0.4      Color:   10
Closed pH: 4.80        Equil. pH: 4.79               ANC:   -9.9        DOC:  1.57
Closed DIC:  0.44   Equil. DIC:  0.13    Meas. Cond:  23.7   Cal. Cond:  23.9
Ca:   59.3         Mg:    16.3        Na:    17.5        K:    6.3       NH4:  5.2
SO4:  132.5      HCO3:     0.9       Cl:     8.0      NO3:    9.8          F:  2.9
Sum Cations:  120.8  Sum Anions:  154.0  Cations/Anions: 0.78   Tot. P:   0.0
Tot. Al:  386.6    Ext. Al: 208.3    Fe:    13.0     Mn:    33.0     SiO2:  0.84

ID: 1A1-004   Name: EVERGREEN LAKE                  State: NY  Date: 25OCT84
Sample Type: REGULAR          Latitude: 43-55'00"N   Longitude: 75-01'00"W
Elevation:  613   Surface Temp: 12.2  Stratified: MIXED     Site Depth:   7.3
Lake Area:      20 Watershed Area:       73 WA/LA:      3.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  6.3   Turbidity:   0.2      Color:    5
Closed pH: 4.67        Equil. pH: 4.69               ANC:  -11.3        DOC:  1.06
Closed DIC:  0.43   Equil. DIC:  0.13    Meas. Cond:  22.7   Cal. Cond:  22.1
Ca:   45.0         Mg:    16.5        Na:    13.4        K:    7.4       NH4:  1.3
SO4:  106.8      HCO3:     0.6       Cl:     7.5      NO3:    8.8          F:  2.3
Sum Cations:  104.5  Sum Anions:  126.0  Cations/Anions: 0.83   Tot. P:   0.0
Tot. Al:  273.1    Ext. Al: 163.3    Fe:    30.0     Mn:    52.0     SiO2:  0.36

ID: 1A1-008   Name: CEDAR RIVER FLOW                State: NY  Date: 15OCT84
Sample Type: REGULAR          Latitude: 43-42'30"N   Longitude: 74-28'30"W
Elevation:  640   Surface Temp: 12.3  Stratified: MIXED     Site Depth:   1.5
Lake Area:     265 Watershed Area:    11914 WA/LA:     45.0 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.6   Turbidity:   1.1      Color:   30
Closed pH: 6.54        Equil. pH: 7.02               ANC:   71.8        DOC:  4.00
Closed DIC:  1.14   Equil. DIC:  0.77    Meas. Cond:  26.0   Cal. Cond:  26.1
Ca:  126.9         Mg:    49.4        Na:    32.9        K:    6.4       NH4:  1.4
SO4:  119.5      HCO3:    65.4       Cl:    11.3      NO3:    1.9          F:  2.4
Sum Cations:  217.3  Sum Anions:  200.5  Cations/Anions: 1.08   Tot. P:   6.3
Tot. Al:  205.5    Ext. Al:  17.3    Fe:    87.0     Mn:    20.0     SiO2:  5.56

ID: 1A1-009   Name: TWIN LAKES (EASTERN)            State: NY  Date: 30OCT84
Sample Type: REGULAR          Latitude: 43-37'15"N   Longitude: 74-37'15"W
Elevation:  812   Surface Temp: 10.6  Stratified: MIXED     Site Depth:   1.5
Lake Area:       7 Watershed Area:      129 WA/LA:     17.4 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.5   Turbidity:   0.6      Color:   25
Closed pH: 4.54        Equil. pH: 4.51               ANC:  -23.1        DOC:  4.16
Closed DIC:  0.47   Equil. DIC:  0.17    Meas. Cond:  28.2   Cal. Cond:  26.6
Ca:   25.3         Mg:    21.2        Na:    20.0        K:    1.7       NH4:  2.5
SO4:  137.9      HCO3:     0.6       Cl:     7.8      NO3:    2.0          F:  1.9
Sum Cations:  101.5  Sum Anions:  150.2  Cations/Anions: 0.68   Tot. P:   5.8
Tot. Al:  638.3    Ext. Al: 324.5    Fe:   122.0     Mn:    35.0     SiO2:  1.97

ID: 1A1-010   Name: SNYDER LAKE                     State: NY  Date: 16OCT84
Sample Type: REGULAR          Latitude: 43-34'15"N   Longitude: 74-49'15"W
Elevation:  735   Surface Temp: 13.2  Stratified: MIXED     Site Depth:   0.9
Lake Area:       7 Watershed Area:      145 WA/LA:     19.9 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.0   Turbidity:   0.4      Color:   40
Closed pH: 4.36        Equil. pH: 4.42               ANC:  -34.2        DOC:  5.35
Closed DIC:  0.68   Equil. DIC:  0.23    Meas. Cond:  33.7   Cal. Cond:  30.7
Ca:   45.9         Mg:    15.2        Na:    15.8        K:    2.8       NH4:  3.7
SO4:  131.9      HCO3:     0.5       Cl:    11.1      NO3:    1.6          F:  1.7
Sum Cations:  124.1  Sum Anions:  146.8  Cations/Anions: 0.85   Tot. P:   0.1
Tot. Al:  527.5    Ext. Al: 282.7    Fe:   249.0     Mn:    23.0     SiO2:  2.68
```

TABLE 3-1 (continued)

```
ID: 1A1-012   Name: WHITNEY LAKE                         State: NY  Date: 30OCT84
Sample Type: REGULAR            Latitude: 43-35'15"N   Longitude: 74-33'45"W
Elevation:  749   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   4.3
Lake Area:      43 Watershed Area:    272 WA/LA:      6.3 Hydro Type: DRAINAGE
Residence Time:  0.40  Secchi Depth:  4.2  Turbidity:   0.3      Color:   15
Closed pH: 6.03        Equil. pH: 6.23             ANC:   16.8        DOC:  2.56
Closed DIC:  0.41  Equil. DIC:  0.20   Meas. Cond:  16.6  Cal. Cond:  17.6
Ca:   77.6           Mg:   27.0        Na:    16.3        K:   5.5      NH4:  1.6
SO4:  107.2       HCO3:    11.7       Cl:    7.3        NO3:   0.6         F:  1.9
Sum Cations:  129.2  Sum Anions:  128.7  Cations/Anions: 1.00  Tot. P:   2.9
Tot. Al:   40.9   Ext. Al:    9.9    Fe:     8.0      Mn:   26.0    SiO2:  1.21

ID: 1A1-014   Name: WILMURT LAKE                         State: NY  Date: 30OCT84
Sample Type: REGULAR            Latitude: 43-25'45"N   Longitude: 74-43'30"W
Elevation:  752   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   4.3
Lake Area:      39 Watershed Area:    259 WA/LA:      6.7 Hydro Type: DRAINAGE
Residence Time:  0.38  Secchi Depth:  4.5  Turbidity:   0.2      Color:   10
Closed pH: 6.41        Equil. pH: 6.69             ANC:   39.5        DOC:  2.18
Closed DIC:  0.69  Equil. DIC:  0.45   Meas. Cond:  17.6  Cal. Cond:  19.6
Ca:   86.9           Mg:   31.2        Na:    22.0        K:   4.1      NH4:  1.8
SO4:  107.6       HCO3:    38.6       Cl:    7.3        NO3:   3.0         F:  1.6
Sum Cations:  146.2  Sum Anions:  158.1  Cations/Anions: 0.92  Tot. P:   2.9
Tot. Al:  187.8   Ext. Al:    9.9    Fe:     1.0      Mn:    0.0    SiO2:  2.56

ID: 1A1-015   Name: HENDERSON LAKE                       State: NY  Date: 12OCT84
Sample Type: REG/SPC/NRC/       Latitude: 44-05'15"N   Longitude: 74-04'00"W
Elevation:  553   Surface Temp: 11.8  Stratified: WEAK       Site Depth:  19.2
Lake Area:     104 Watershed Area:   4333 WA/LA:     41.8 Hydro Type: DRAINAGE
Residence Time:  0.41  Secchi Depth:  4.9  Turbidity:   0.4      Color:   20
Closed pH: 5.94        Equil. pH: 6.22             ANC:   18.9        DOC:  2.68
Closed DIC:  0.54  Equil. DIC:  0.26   Meas. Cond:  22.4  Cal. Cond:  21.5
Ca:  108.8           Mg:   23.5        Na:    26.7        K:   3.3      NH4:  1.7
SO4:  121.0       HCO3:    13.1       Cl:    6.4        NO3:  12.6         F:  0.9
Sum Cations:  165.0  Sum Anions:  154.1  Cations/Anions: 1.07  Tot. P:   0.0
Tot. Al:  253.9   Ext. Al:   34.2    Fe:     9.0      Mn:   12.0    SiO2:  5.50

ID: 1A1-0.6   Name: RAVEN LAKE                           State: NY  Date: 25OCT84
Sample Type: REGULAR            Latitude: 43-55'45"N   Longitude: 75-02'00"W
Elevation:  588   Surface Temp: 11.9  Stratified: MIXED      Site Depth:  13.0
Lake Area:      52 Watershed Area:    671 WA/LA:     13.0 Hydro Type: DRAINAGE
Residence Time:  0.60  Secchi Depth:  5.5  Turbidity:   0.3      Color:   15
Closed pH: 4.62        Equil. pH: 4.63             ANC:   -7.8        DOC:  2.05
Closed DIC:  0.25  Equil. DIC:  0.14   Meas. Cond:  24.5  Cal. Cond:  23.9
Ca:   44.5           Mg:   13.4        Na:    15.1        K:   6.5      NH4:  1.1
SO4:  115.8       HCO3:     0.5       Cl:   10.0        NO3:  16.0         F:  3.1
Sum Cations:  102.9  Sum Anions:  145.3  Cations/Anions: 0.71  Tot. P:   0.0
Tot. Al:  516.1   Ext. Al:  246.9    Fe:    38.0      Mn:   50.0    SiO2:  1.55

ID: 1A1-017   Name: CONSTABLE POND                       State: NY  Date: 14OCT84
Sample Type: REGULAR            Latitude: 43-50'00"N   Longitude: 74-47'45"W
Elevation:  582   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   4.3
Lake Area:      21 Watershed Area:    966 WA/LA:     45.3 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  4.0  Turbidity:   0.5      Color:   20
Closed pH: 4.72        Equil. pH: 5.01             ANC:   -1.4        DOC:  3.49
Closed DIC:  0.30  Equil. DIC:  0.13   Meas. Cond:  27.1  Cal. Cond:  24.4
Ca:   84.5           Mg:   24.7        Na:    24.8        K:   8.2      NH4:  3.0
SO4:  146.5       HCO3:     1.9       Cl:    9.2        NO3:   3.1         F:  4.0
Sum Cations:  153.9  Sum Anions:  164.8  Cations/Anions: 0.93  Tot. P:   0.0
Tot. Al:  272.2   Ext. Al:  149.7    Fe:   137.0      Mn:   54.0    SiO2:  2.29
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A1-018   Name: GOOSE POND                        State: NY  Date: 14OCT84
Sample Type: REG/SPC/NRC/       Latitude: 43-47'00"N   Longitude: 74-54'00"W
Elevation:  540   Surface Temp: 15.0  Stratified: MIXED      Site Depth:   0.9
Lake Area:       7 Watershed Area:     101 WA/LA:     13.8 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:    *    Turbidity:   0.2      Color:   10
Closed pH: 5.19        Equil. pH: 5.21              ANC:    3.1        DOC:  4.20
Closed DIC:  0.46  Equil. DIC:  0.14   Meas. Cond:  24.1   Cal. Cond:  22.8
Ca:    95.4          Mg:    24.7       Na:    25.4        K:   2.7       NH4:   1.4
SO4:  143.8        HCO3:     2.7       Cl:     4.4      NO3:   0.6         F:   4.0
Sum Cations:  155.4  Sum Anions:   155.5  Cations/Anions: 1.00   Tot. P:   0.5
Tot. Al:  160.0    Ext. Al:  86.8     Fe:    10.0      Mn:   35.0    SiO2:  1.09

ID: 1A1-019   Name: QUIVER POND                       State: NY  Date: 14OCT84
Sample Type: REGULAR            Latitude: 43-44'15"N   Longitude: 74-52'15"W
Elevation:  529   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   2.4
Lake Area:       7 Watershed Area:     145 WA/LA:     19.9 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  2.4   Turbidity:   0.9      Color:   80
Closed pH: 5.92        Equil. pH: 6.55              ANC:   37.1        DOC:  6.18
Closed DIC:  1.17  Equil. DIC:  0.38   Meas. Cond:  21.0   Cal. Cond:  19.1
Ca:    85.9          Mg:    27.8       Na:    26.7        K:   8.1       NH4:  17.4
SO4:   80.6        HCO3:    25.9       Cl:    15.9      NO3:   1.9         F:   2.3
Sum Cations:  166.6  Sum Anions:   126.6  Cations/Anions: 1.32   Tot. P:   4.3
Tot. Al:   87.3    Ext. Al:  10.4     Fe:   872.0      Mn:   12.0    SiO2:  0.45

ID: 1A1-020   Name: FOURTH LAKE (BISBY LAKES)         State: NY  Date: 16OCT84
Sample Type: REGULAR            Latitude: 43-34'15"N   Longitude: 74-58'15"W
Elevation:  609   Surface Temp: 12.7  Stratified: MIXED      Site Depth:   8.5
Lake Area:      23 Watershed Area:     259 WA/LA:     11.5 Hydro Type: DRAINAGE
Residence Time:  0.45  Secchi Depth:  5.0   Turbidity:   0.2      Color:   30
Closed pH: 5.47        Equil. pH: 5.85              ANC:   16.6        DOC:  4.17
Closed DIC:  0.63  Equil. DIC:  0.23   Meas. Cond:  19.9   Cal. Cond:  18.6
Ca:    83.7          Mg:    25.6       Na:    23.3        K:   7.0       NH4:   3.4
SO4:  105.4        HCO3:     6.9       Cl:     7.8      NO3:   2.2         F:   2.8
Sum Cations:  145.0  Sum Anions:   125.2  Cations/Anions: 1.16   Tot. P:   2.9
Tot. Al:  203.3    Ext. Al:  84.3     Fe:   109.0      Mn:   31.0    SiO2:  1.76

ID: 1A1-021   Name: WOLF POND                         State: NY  Date: 11OCT84
Sample Type: REGULAR            Latitude: 44-39'00"N   Longitude: 74-03'30"W
Elevation:  460   Surface Temp: 11.9  Stratified: WEAK       Site Depth:  11.9
Lake Area:      17 Watershed Area:     171 WA/LA:     10.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.8   Turbidity:   0.4      Color:   20
Closed pH: 6.66        Equil. pH: 7.29              ANC:  120.4        DOC:  2.47
Closed DIC:  1.70  Equil. DIC:  1.48   Meas. Cond:  22.6   Cal. Cond:  23.6
Ca:    24.2          Mg:    10.3       Na:   178.8        K:   4.6       NH4:   1.4
SO4:   79.7        HCO3:   116.0       Cl:     5.9      NO3:   1.6         F:   1.1
Sum Cations:  219.3  Sum Anions:   204.3  Cations/Anions: 1.07   Tot. P:   6.0
Tot. Al:   33.6    Ext. Al:   4.1     Fe:     9.0      Mn:    8.0    SiO2:  0.08

ID: 1A1-023   Name: CLEAR POND                        State: NY  Date: 11OCT84
Sample Type: REGULAR            Latitude: 44-29'15"N   Longitude: 74-09'30"W
Elevation:  505   Surface Temp: 11.6  Stratified: WEAK       Site Depth:  12.8
Lake Area:      40 Watershed Area:     264 WA/LA:      6.6 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  3.2   Turbidity:   0.6      Color:   20
Closed pH: 6.88        Equil. pH: 6.72              ANC:  184.6        DOC:  3.74
Closed DIC:  2.30  Equil. DIC:  2.09   Meas. Cond:  33.4   Cal. Cond:  35.3
Ca:   177.1          Mg:    87.5       Na:    40.5        K:  11.6       NH4:   1.4
SO4:  110.0        HCO3:   165.1       Cl:    10.1      NO3:   0.4         F:   2.5
Sum Cations:  318.2  Sum Anions:   288.2  Cations/Anions: 1.10   Tot. P:   2.7
Tot. Al:   16.0    Ext. Al:   3.5     Fe:    48.0      Mn:   13.0    SiO2:  1.17
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A1-024   Name: SILVER LAKE                        State: NY  Date: 12OCT84
Sample Type: REGULAR           Latitude: 44-30'30"N   Longitude: 73-52'30"W
Elevation:  425   Surface Temp: 12.6  Stratified: MIXED     Site Depth:  14.6
Lake Area:     322 Watershed Area:    1290 WA/LA:      4.0 Hydro Type: DRAINAGE
Residence Time:  4.03  Secchi Depth:  6.0   Turbidity:   0.2      Color:   10
Closed pH: 7.00       Equil. pH: 7.50              ANC:  188.7         DOC:  3.00
Closed DIC:  2.47   Equil. DIC:  2.18   Meas. Cond:  40.4   Cal. Cond:  42.9
Ca:  202.7          Mg:  104.3      Na:   50.6          K:  11.6       NH4:   1.6
SO4:  153.8       HCO3:  173.5      Cl:   19.8        NO3:   0.4         F:   3.0
Sum Cations:  370.9  Sum Anions:  350.8  Cations/Anions: 1.06   Tot. P:   2.4
Tot. Al:    8.9    Ext. Al:    3.3    Fe:    0.0      Mn:    8.0     SiO2:  1.07

ID: 1A1-025   Name: MOUNTAIN POND                      State: NY  Date: 11OCT84
Sample Type: REGULAR           Latitude: 44-28'30"N   Longitude: 74-16'30"W
Elevation:  502   Surface Temp: 11.2  Stratified: MIXED     Site Depth:   5.8
Lake Area:      23 Watershed Area:     181 WA/LA:      8.0 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  3.3   Turbidity:   0.3      Color:   40
Closed pH: 6.43       Equil. pH: 6.91              ANC:   71.0         DOC:  5.96
Closed DIC:  1.20   Equil. DIC:  0.71   Meas. Cond:  51.4   Cal. Cond:  53.6
Ca:  158.7          Mg:   56.5      Na:  226.0          K:   9.5       NH4:   1.5
SO4:  136.0       HCO3:   49.5      Cl:  205.1        NO3:   0.0         F:   3.4
Sum Cations:  452.4  Sum Anions:  393.9  Cations/Anions: 1.15   Tot. P:   9.4
Tot. Al:  101.5    Ext. Al:   15.7    Fe:  143.0      Mn:   16.5     SiO2:  2.75

ID: 1A1-027   Name: LITTLE CLEAR POND                  State: NY  Date: 11OCT84
Sample Type: REGULAR           Latitude: 44-21'45"N   Longitude: 74-17'00"W
Elevation:  487   Surface Temp: 12.7  Stratified: WEAK      Site Depth:  13.1
Lake Area:     143 Watershed Area:     619 WA/LA:      4.3 Hydro Type: DRAINAGE
Residence Time:  2.33  Secchi Depth:  4.7   Turbidity:   0.2      Color:   10
Closed pH: 7.12       Equil. pH: 7.68              ANC:  272.7         DOC:  2.21
Closed DIC:  3.08   Equil. DIC:  3.15   Meas. Cond:  41.1   Cal. Cond:  42.7
Ca:  220.6          Mg:  109.0      Na:   53.9          K:  12.2       NH4:   1.1
SO4:  104.0       HCO3:  242.6      Cl:   10.6        NO3:   0.0         F:   2.4
Sum Cations:  396.8  Sum Anions:  360.2  Cations/Anions: 1.10   Tot. P:   7.4
Tot. Al:   84.8    Ext. Al:    5.2    Fe:    8.0      Mn:    1.0     SiO2:  7.78

ID: 1A1-028   Name: DRY CHANNEL POND                   State: NY  Date: 11OCT84
Sample Type: REGULAR           Latitude: 44-21'10"N   Longitude: 74-26'15"W
Elevation:  497   Surface Temp: 11.7  Stratified: MIXED     Site Depth:   2.4
Lake Area:      27 Watershed Area:     207 WA/LA:      7.6 Hydro Type: DRAINAGE
Residence Time:  0.26  Secchi Depth:  3.0   Turbidity:   0.4      Color:   15
Closed pH: 5.51       Equil. pH: 5.63              ANC:    7.5         DOC:  3.93
Closed DIC:  0.33   Equil. DIC:  0.21   Meas. Cond:  20.5   Cal. Cond:  20.5
Ca:   91.2          Mg:   22.4      Na:   22.1          K:   3.1       NH4:   1.7
SO4:  130.4       HCO3:    2.9      Cl:    6.2        NO3:   0.1         F:   1.2
Sum Cations:  144.2  Sum Anions:  140.8  Cations/Anions: 1.02   Tot. P:   4.1
Tot. Al:  117.2    Ext. Al:   29.9    Fe:    0.0      Mn:    2.0     SiO2:  0.21

ID: 1A1-029   Name: MIDDLE POND                        State: NY  Date: 11OCT84
Sample Type: REGULAR           Latitude: 44-20'20"N   Longitude: 74-22'45"W
Elevation:  484   Surface Temp: 11.1  Stratified: MIXED     Site Depth:   1.8
Lake Area:      24 Watershed Area:     186 WA/LA:      7.8 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  1.9   Turbidity:   0.6      Color:   40
Closed pH: 6.90       Equil. pH: 7.26              ANC:  121.5         DOC:  5.97
Closed DIC:  1.37   Equil. DIC:  1.31   Meas. Cond:  31.1   Cal. Cond:  31.7
Ca:  170.4          Mg:   52.4      Na:   45.7          K:   8.7       NH4:   0.3
SO4:  125.2       HCO3:  104.8      Cl:   13.1        NO3:   0.0         F:   2.0
Sum Cations:  277.6  Sum Anions:  245.2  Cations/Anions: 1.13   Tot. P:   7.2
Tot. Al:   74.6    Ext. Al:    9.8    Fe:   42.0      Mn:    0.0     SiO2:  2.54
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A1-030   Name: LAKE CLEAR OUTLET                  State: NY  Date: 12OCT84
Sample Type: REGULAR             Latitude: 44-20'50"N    Longitude: 74-15'45"W
Elevation:  491   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   1.8
Lake Area:      47 Watershed Area:    3090 WA/LA:     66.2 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.4   Turbidity:   0.8      Color:   45
Closed pH: 6.87        Equil. pH: 7.56            ANC:  209.3          DOC:  7.04
Closed DIC:  2.73   Equil. DIC:  2.18    Meas. Cond:  44.0   Cal. Cond:  46.0
Ca:  214.5           Mg:   108.6       Na:   87.0        K:  12.5       NH4:  1.0
SO4:   113.4      HCO3:  172.3       Cl:   68.4       NO3:   0.0          F:  2.3
Sum Cations:  423.6  Sum Anions:  356.6  Cations/Anions: 1.19   Tot. P:   4.4
Tot. Al:   52.5    Ext. Al:    4.6     Fe:   148.0      Mn:     7.0    SiO2:  2.65

ID: 1A1-031   Name: JOCKS POND                         State: NY  Date: 13OCT84
Sample Type: REGULAR             Latitude: 44-17'30"N    Longitude: 74-40'00"W
Elevation:  468   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   3.7
Lake Area:      16 Watershed Area:     111 WA/LA:      6.9 Hydro Type: DRAINAGE
Residence Time:  0.44  Secchi Depth:  2.6   Turbidity:   0.5      Color:   40
Closed pH: 7.01        Equil. pH: 7.48            ANC:  192.1          DOC:  6.55
Closed DIC:  2.38   Equil. DIC:  2.09    Meas. Cond:  54.8   Cal. Cond:  57.1
Ca:  264.0           Mg:   122.6       Na:   92.1        K:  10.5       NH4:  1.7
SO4:   116.5      HCO3:  177.3       Cl:  156.4       NO3:   0.0          F:  3.1
Sum Cations:  490.9  Sum Anions:  453.6  Cations/Anions: 1.08   Tot. P:   5.1
Tot. Al:   25.2    Ext. Al:    5.7     Fe:    35.0      Mn:     3.0    SiO2:  2.89

ID: 1A1-032   Name: LOST POND                          State: NY  Date: 13OCT84
Sample Type: REGULAR             Latitude: 44-16'30"N    Longitude: 74-29'15"W
Elevation:  483   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   1.5
Lake Area:      11 Watershed Area:      57 WA/LA:      5.4 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.7   Turbidity:   0.8      Color:   20
Closed pH: 7.06        Equil. pH: 7.42            ANC:  158.0          DOC:  5.72
Closed DIC:  1.98   Equil. DIC:  1.77    Meas. Cond:  32.9   Cal. Cond:  33.5
Ca:  193.4           Mg:    51.6       Na:   46.4        K:   7.4       NH4:  1.6
SO4:   109.9      HCO3:  148.3       Cl:    9.2       NO3:   0.3          F:  2.3
Sum Cations:  300.6  Sum Anions:  270.2  Cations/Anions: 1.11   Tot. P:   7.8
Tot. Al:   22.0    Ext. Al:    3.5     Fe:    30.5      Mn:     0.0    SiO2:  0.84

ID: 1A1-033   Name: KIWASSA LAKE                       State: NY  Date: 13OCT84
Sample Type: REGULAR             Latitude: 44-17'45"N    Longitude: 74-09'30"W
Elevation:  466   Surface Temp: 13.5  Stratified: MIXED      Site Depth:   7.3
Lake Area:     115 Watershed Area:     515 WA/LA:      4.5 Hydro Type: DRAINAGE
Residence Time:  1.09  Secchi Depth:  4.9   Turbidity:   0.3      Color:   10
Closed pH: 6.90        Equil. pH: 7.48            ANC:  189.3          DOC:  3.80
Closed DIC:  2.62   Equil. DIC:  2.14    Meas. Cond:  44.9   Cal. Cond:  45.9
Ca:  221.4           Mg:    79.2       Na:   87.2        K:   9.4       NH4:  1.7
SO4:   125.3      HCO3:  182.8       Cl:   66.5       NO3:   0.3          F:  1.7
Sum Cations:  399.0  Sum Anions:  376.9  Cations/Anions: 1.06   Tot. P:   4.3
Tot. Al:   11.0    Ext. Al:    5.3     Fe:    23.0      Mn:    12.0    SiO2:  1.03

ID: 1A1-034   Name: SILVER LAKE                        State: NY  Date: 13OCT84
Sample Type: REGULAR             Latitude: 44-13'30"N    Longitude: 74-49'30"W
Elevation:  452   Surface Temp: 12.9  Stratified: MIXED      Site Depth:   4.8
Lake Area:      45 Watershed Area:     127 WA/LA:      2.8 Hydro Type: DRAINAGE
Residence Time:  1.20  Secchi Depth:  3.6   Turbidity:   0.5      Color:   10
Closed pH: 7.42        Equil. pH: 7.66            ANC:  236.6          DOC:  3.63
Closed DIC:  2.65   Equil. DIC:  2.64    Meas. Cond:  81.3   Cal. Cond:  72.0
Ca:  270.9           Mg:    88.3       Na:  311.0        K:  21.2       NH4:  1.4
SO4:   103.6      HCO3:  221.8       Cl:  201.6       NO3:   0.3          F:  5.6
Sum Cations:  693.0  Sum Anions:  533.4  Cations/Anions: 1.30   Tot. P:   3.4
Tot. Al:   47.4    Ext. Al:    2.5     Fe:    23.0      Mn:     3.0    SiO2:  4.53
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A1-035   Name: PIERCEFIELD FLOW                State: NY  Date: 13OCT84
Sample Type: REGULAR            Latitude: 44-13'45"N   Longitude: 74-33'00"W
Elevation:  469   Surface Temp: 13.5  Stratified: MIXED      Site Depth:   1.8
Lake Area:      137 Watershed Area: 180223 WA/LA:  1316.5 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  2.0  Turbidity:   0.5      Color:   30
Closed pH: 6.67       Equil. pH: 7.27                 ANC:  112.6      DOC:  4.62
Closed DIC:  1.79   Equil. DIC:  1.19    Meas. Cond:  34.8   Cal. Cond:  34.5
Ca:  170.8          Mg:   55.0        Na:   57.9          K:    9.9      NH4:  3.7
SO4:  122.8       HCO3:  104.0       Cl:   30.8        NO3:    6.7         F:  3.3
Sum Cations:  297.4  Sum Anions:  267.8  Cations/Anions: 1.11   Tot. P:   7.6
Tot. Al:   87.4    Ext. Al:    9.5    Fe:  102.0       Mn:   19.0    SiO2:  5.84

ID: 1A1-037   Name: BLACK POND                      State: NY  Date: 13OCT84
Sample Type: REGULAR            Latitude: 44-09'00"N   Longitude: 74-35'30"W
Elevation:  540   Surface Temp:   9.3  Stratified: MIXED      Site Depth:   9.1
Lake Area:        7 Watershed Area:     109 WA/LA:    15.1 Hydro Type: DRAINAGE
Residence Time:  0.52  Secchi Depth:  0.5  Turbidity:   0.6      Color:  150
Closed pH: 5.12       Equil. pH: 5.54                 ANC:   19.0      DOC: 11.45
Closed DIC:  3.06   Equil. DIC:  0.15    Meas. Cond:  18.0   Cal. Cond:  15.5
Ca:   61.5          Mg:   24.8        Na:   28.8          K:   15.4      NH4:  1.4
SO4:   61.1       HCO3:    9.9       Cl:    9.7        NO3:    0.1         F:  3.8
Sum Cations:  136.2  Sum Anions:   84.6  Cations/Anions: 1.61   Tot. P:   8.2
Tot. Al:  111.1    Ext. Al:   10.3    Fe:  430.0       Mn:   37.0    SiO2:  2.69

ID: 1A1-038   Name: NICKS POND                      State: NY  Date: 24OCT84
Sample Type: REG/SPC/NRC/       Latitude: 44-08'35"N   Longitude: 74-58'05"W
Elevation:  515   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   6.1
Lake Area:        6 Watershed Area:      41 WA/LA:     7.2 Hydro Type: DRAINAGE
Residence Time:  0.58  Secchi Depth:  3.5  Turbidity:   0.7      Color:   20
Closed pH: 6.74       Equil. pH: 7.18                 ANC:  106.4      DOC:  3.47
Closed DIC:  1.52   Equil. DIC:  1.24    Meas. Cond:  24.1   Cal. Cond:  25.7
Ca:  117.6          Mg:   81.8        Na:   18.7          K:    4.4      NH4:  1.2
SO4:  101.7       HCO3:   88.1       Cl:    7.5        NO3:    0.5         F:  5.5
Sum Cations:  223.8  Sum Anions:  203.4  Cations/Anions: 1.10   Tot. P:   3.4
Tot. Al:   55.6    Ext. Al:   13.9    Fe:  229.0       Mn:   10.0    SiO2:  0.61

ID: 1A1-039   Name: JOHN POND                       State: NY  Date: 13OCT84
Sample Type: REGULAR            Latitude: 44-06'45"N   Longitude: 74-45'50"W
Elevation:  546   Surface Temp: 12.6  Stratified: MIXED      Site Depth:   7.0
Lake Area:        6 Watershed Area:      36 WA/LA:     6.1 Hydro Type: SEEPAGE
Residence Time:     *    Secchi Depth:  4.7  Turbidity:   0.0      Color:   10
Closed pH: 5.21       Equil. pH: 5.34                 ANC:    1.9      DOC:  0.67
Closed DIC:  0.28   Equil. DIC:  0.13    Meas. Cond:  20.9   Cal. Cond:  19.4
Ca:   74.8          Mg:   18.7        Na:   18.3          K:    5.9      NH4:  2.7
SO4:  124.6       HCO3:    2.6       Cl:    6.3        NO3:    2.0         F:  2.0
Sum Cations:  125.0  Sum Anions:  137.6  Cations/Anions: 0.91   Tot. P:   0.7
Tot. Al:  134.0    Ext. Al:   38.2    Fe:   14.0       Mn:   53.0    SiO2:  0.39

ID: 1A1-040   Name: HITCHENS POND                   State: NY  Date: 13OCT84
Sample Type: REGULAR            Latitude: 44-06'30"N   Longitude: 74-40'00"W
Elevation:  524   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   9.1
Lake Area:       54 Watershed Area:  11541 WA/LA:   212.1 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.7  Turbidity:   2.1      Color:   80
Closed pH: 6.58       Equil. pH: 7.21                 ANC:  115.7      DOC:  6.48
Closed DIC:  1.80   Equil. DIC:  1.19    Meas. Cond:  27.0   Cal. Cond:  25.7
Ca:  139.0          Mg:   55.3        Na:   37.2          K:    7.6      NH4:  1.6
SO4:   79.8       HCO3:  103.4       Cl:    8.2        NO3:    0.9         F:  4.0
Sum Cations:  240.8  Sum Anions:  196.4  Cations/Anions: 1.23   Tot. P:   7.7
Tot. Al:   47.1    Ext. Al:    7.2    Fe:  243.0       Mn:   25.0    SiO2:  4.80
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A1-041   Name: LEDGE POND                         State: NY  Date: 18OCT84
Sample Type: REGULAR            Latitude: 44-05'40"N    Longitude: 73-39'55"W
Elevation:  375   Surface Temp: 12.5  Stratified: MIXED     Site Depth:    3.0
Lake Area:       5 Watershed Area:     456 WA/LA:     91.2 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  3.0   Turbidity:   0.5      Color:    25
Closed pH: 6.73        Equil. pH: 7.26            ANC:   111.6         DOC:  3.37
Closed DIC:   1.71   Equil. DIC:   1.27   Meas. Cond:  29.1   Cal. Cond:  29.7
Ca:   169.2            Mg:    47.8        Na:    30.3       K:    3.2      NH4:   1.1
SO4:   116.1        HCO3:   112.0        Cl:    11.8      NO3:    0.2        F:   1.0
Sum Cations:   251.7  Sum Anions:  241.2  Cations/Anions: 1.04   Tot. P:  12.2
Tot. Al:   58.0    Ext. Al:    0.0     Fe:    32.0     Mn:     5.5     SiO2:  0.59

ID: 1A1-042   Name: LOWS LAKE                          State: NY  Date: 25OCT84
Sample Type: REGULAR            Latitude: 44-05'00"N    Longitude: 74-45'30"W
Elevation:  530   Surface Temp:  9.9  Stratified: MIXED     Site Depth:    1.2
Lake Area:    1019 Watershed Area:    7392 WA/LA:      7.3 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  1.1   Turbidity:   2.4      Color:    45
Closed pH: 6.28        Equil. pH: 6.81            ANC:    54.6         DOC:  5.13
Closed DIC:   1.02   Equil. DIC:   0.55   Meas. Cond:  19.6   Cal. Cond:  20.7
Ca:    95.7            Mg:    34.5        Na:    32.1       K:    8.8      NH4:   4.7
SO4:    93.2        HCO3:    43.1        Cl:     8.3      NO3:    2.3        F:   3.9
Sum Cations:   176.2  Sum Anions:  150.9  Cations/Anions: 1.17   Tot. P:  12.6
Tot. Al:   78.6    Ext. Al:   12.2     Fe:    53.0     Mn:    22.0     SiO2:  1.06

ID: 1A1-043   Name: LITTLE TUPPER LAKE                 State: NY  Date: 25OCT84
Sample Type: REGULAR            Latitude: 44-02'22"N    Longitude: 74-36'40"W
Elevation:  523   Surface Temp: 11.7  Stratified: MIXED     Site Depth:    4.6
Lake Area:     923 Watershed Area:   10394 WA/LA:     11.3 Hydro Type: DRAINAGE
Residence Time:  0.29  Secchi Depth:  2.3   Turbidity:   1.4      Color:    35
Closed pH: 6.42        Equil. pH: 6.90            ANC:    67.4         DOC:  5.34
Closed DIC:   1.16   Equil. DIC:   0.65   Meas. Cond:  24.2   Cal. Cond:  26.9
Ca:   132.8            Mg:    44.5        Na:    37.5       K:   11.1      NH4:   1.2
SO4:   123.9        HCO3:    54.2        Cl:    13.9      NO3:    1.5        F:   4.6
Sum Cations:   227.3  Sum Anions:  198.1  Cations/Anions: 1.15   Tot. P:   6.2
Tot. Al:   65.5    Ext. Al:    7.1     Fe:    57.0     Mn:    30.0     SiO2:  4.02

ID: 1A1-044   Name: LONG LAKE                          State: NY  Date: 15OCT84
Sample Type: REGULAR            Latitude: 44-02'30"N    Longitude: 74-22'00"W
Elevation:  496   Surface Temp: 13.5  Stratified: MIXED     Site Depth:    5.5
Lake Area:    1619 Watershed Area:   75387 WA/LA:     46.6 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  5.2   Turbidity:   0.2      Color:    20
Closed pH: 6.87        Equil. pH: 7.10            ANC:    84.2         DOC:  3.91
Closed DIC:   1.05   Equil. DIC:   0.92   Meas. Cond:  33.2   Cal. Cond:  32.6
Ca:   143.2            Mg:    49.6        Na:    64.2       K:   10.3      NH4:   2.4
SO4:   129.8        HCO3:    73.4        Cl:    43.1      NO3:    0.6        F:   5.0
Sum Cations:   269.9  Sum Anions:  252.0  Cations/Anions: 1.07   Tot. P:   0.7
Tot. Al:   42.3    Ext. Al:    1.2     Fe:    87.5     Mn:     3.5     SiO2:  3.83

ID: 1A1-046   Name: PARTLOW LAKE                       State: NY  Date: 25OCT84
Sample Type: REGULAR            Latitude: 44-00'15"N    Longitude: 74-50'00"W
Elevation:  534   Surface Temp: 11.3  Stratified: MIXED     Site Depth:    6.4
Lake Area:      30 Watershed Area:     280 WA/LA:      9.3 Hydro Type: DRAINAGE
Residence Time:  0.48  Secchi Depth:  2.6   Turbidity:   0.7      Color:    40
Closed pH: 6.32        Equil. pH: 6.91            ANC:    68.1         DOC:  5.10
Closed DIC:   1.31   Equil. DIC:   0.68   Meas. Cond:  24.1   Cal. Cond:  25.2
Ca:   124.4            Mg:    36.7        Na:    34.1       K:   12.0      NH4:   5.5
SO4:   111.3        HCO3:    55.9        Cl:     9.7      NO3:    4.9        F:   5.6
Sum Cations:   212.9  Sum Anions:  187.4  Cations/Anions: 1.14   Tot. P:   4.1
Tot. Al:  293.0    Ext. Al:   19.4     Fe:   154.0     Mn:    54.0     SiO2:  3.89
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A1-047   Name: MUD POND                           State: NY  Date: 15OCT84
Sample Type: REGULAR            Latitude: 44-01'00"N    Longitude: 74-25'20"W
Elevation:  522   Surface Temp: 12.4  Stratified: MIXED      Site Depth:   7.0
Lake Area:      27 Watershed Area:    1904 WA/LA:     71.0 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  3.0   Turbidity:   0.6      Color:   10
Closed pH: 6.92        Equil. pH: 7.44              ANC:  166.2        DOC:  3.78
Closed DIC:  2.15   Equil. DIC:  1.79    Meas. Cond:  34.2   Cal. Cond:  36.0
Ca:  220.5          Mg:   54.7        Na:   42.2        K:   8.5       NH4:   1.4
SO4:  120.0       HCO3:  143.5        Cl:    9.5      NO3:   1.7         F:   4.2
Sum Cations:  327.4  Sum Anions:  279.2  Cations/Anions: 1.17   Tot. P:   0.8
Tot. Al:   58.2   Ext. Al:    5.5    Fe:  103.0      Mn:    5.0    SiO2:  4.81

ID: 1A1-049   Name: MIDDLE SOUTH POND                  State: NY  Date: 25OCT84
Sample Type: REGULAR            Latitude: 43-59'22"N    Longitude: 75-01'06"W
Elevation:  604   Surface Temp: 11.2  Stratified: MIXED      Site Depth:   2.2
Lake Area:      21 Watershed Area:     148 WA/LA:      7.1 Hydro Type: DRAINAGE
Residence Time:  0.18  Secchi Depth:  2.5   Turbidity:   0.5      Color:   10
Closed pH: 4.66        Equil. pH: 4.67              ANC:  -18.4        DOC:  0.90
Closed DIC:  0.38   Equil. DIC:  0.14    Meas. Cond:  24.7   Cal. Cond:  25.0
Ca:   48.6          Mg:   16.2        Na:   15.6        K:   6.9       NH4:   4.9
SO4:  130.6       HCO3:    0.5        Cl:    7.8      NO3:   9.5         F:   3.2
Sum Cations:  114.1  Sum Anions:  151.7  Cations/Anions: 0.75   Tot. P:   2.1
Tot. Al:  354.6   Ext. Al:  220.6    Fe:   20.0      Mn:   38.0    SiO2:  0.29

ID: 1A1-050   Name: ROCK LAKE                          State: NY  Date: 25OCT84
Sample Type: REGULAR            Latitude: 43-58'00"N    Longitude: 74-52'00"W
Elevation:  546   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   5.8
Lake Area:      78 Watershed Area:     544 WA/LA:      7.0 Hydro Type: DRAINAGE
Residence Time:  0.57  Secchi Depth:  5.3   Turbidity:   0.3      Color:   10
Closed pH: 5.77        Equil. pH: 6.13              ANC:   16.2        DOC:  2.28
Closed DIC:  0.48   Equil. DIC:  0.20    Meas. Cond:  19.7   Cal. Cond:  21.3
Ca:   88.7          Mg:   28.3        Na:   27.1        K:   8.7       NH4:   1.5
SO4:  130.3       HCO3:    9.6        Cl:    8.0      NO3:   4.2         F:   3.5
Sum Cations:  155.6  Sum Anions:  155.5  Cations/Anions: 1.00   Tot. P:   0.0
Tot. Al:   94.5   Ext. Al:   26.5    Fe:   24.0      Mn:   20.0    SiO2:  2.16

ID: 1A1-051   Name: SUTTON POND                        State: NY  Date: 25OCT84
Sample Type: REGULAR            Latitude: 43-57'20"N    Longitude: 74-36'00"W
Elevation:  550   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   3.4
Lake Area:      11 Watershed Area:     127 WA/LA:     11.1 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  2.5   Turbidity:   0.6      Color:   20
Closed pH: 6.36        Equil. pH: 6.64              ANC:   39.2        DOC:  3.88
Closed DIC:  0.57   Equil. DIC:  0.42    Meas. Cond:  22.8   Cal. Cond:  24.5
Ca:  111.9          Mg:   35.0        Na:   33.3        K:  12.0       NH4:   0.7
SO4:  135.9       HCO3:   28.6        Cl:    9.4      NO3:   0.8         F:   5.8
Sum Cations:  193.3  Sum Anions:  180.5  Cations/Anions: 1.07   Tot. P:   5.7
Tot. Al:   47.9   Ext. Al:    5.4    Fe:    0.0      Mn:    4.0    SiO2:  1.58

ID: 1A1-052   Name: ARBUTUS POND                       State: NY  Date: 15OCT84
Sample Type: REGULAR            Latitude: 43-59'15"N    Longitude: 74-14'30"W
Elevation:  513   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   4.5
Lake Area:      49 Watershed Area:     342 WA/LA:      6.9 Hydro Type: DRAINAGE
Residence Time:  0.45  Secchi Depth:  4.6   Turbidity:   0.3      Color:   20
Closed pH: 6.76        Equil. pH: 7.08              ANC:   75.2        DOC:  3.92
Closed DIC:  1.04   Equil. DIC:  0.85    Meas. Cond:  29.9   Cal. Cond:  28.7
Ca:  148.3          Mg:   44.3        Na:   37.4        K:  10.2       NH4:   2.1
SO4:  133.6       HCO3:   59.5        Cl:   13.2      NO3:   0.6         F:   5.1
Sum Cations:  242.4  Sum Anions:  212.1  Cations/Anions: 1.14   Tot. P:   1.9
Tot. Al:   25.5   Ext. Al:    2.1    Fe:   64.0      Mn:    0.0    SiO2:  2.91
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A1-053   Name: WOLF POND                         State: NY  Date: 12OCT84
Sample Type: REGULAR           Latitude: 43-57'36"N    Longitude: 73-55'48"W
Elevation:  557   Surface Temp: 10.9  Stratified: MIXED      Site Depth:   3.0
Lake Area:      24 Watershed Area:    1523 WA/LA:     63.7 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  1.5   Turbidity:   0.5      Color:    80
Closed pH: 6.83        Equil. pH: 7.61              ANC:  230.8          DOC:  9.05
Closed DIC:  2.94   Equil. DIC:  2.35    Meas. Cond:  40.3   Cal. Cond:  42.6
Ca:  264.1           Mg:    66.2        Na:    78.1         K:    3.2       NH4:   1.7
SO4:  112.2        HCO3:  203.6        Cl:    11.1        NO3:    2.4          F:   0.8
Sum Cations:  413.4  Sum Anions:  330.5  Cations/Anions: 1.25   Tot. P:   2.4
Tot. Al:  152.0    Ext. Al:  23.9    Fe:    75.0       Mn:    7.0    SiO2:  8.78

ID: 1A1-055   Name: DEER POND                         State: NY  Date: 25OCT84
Sample Type: REGULAR           Latitude: 43-55'45"N    Longitude: 74-47'00"W
Elevation:  601   Surface Temp: 10.6  Stratified: MIXED      Site Depth:  11.0
Lake Area:      18 Watershed Area:     129 WA/LA:      7.4 Hydro Type: DRAINAGE
Residence Time:  1.03  Secchi Depth:  3.8   Turbidity:   0.6      Color:    25
Closed pH: 6.08        Equil. pH: 6.69              ANC:   42.8          DOC:  3.77
Closed DIC:  1.06   Equil. DIC:  0.44    Meas. Cond:  21.3   Cal. Cond:  22.2
Ca:  104.0           Mg:    30.2        Na:    31.1         K:   10.1       NH4:   1.9
SO4:  118.2        HCO3:   28.8        Cl:     8.7        NO3:    2.1          F:   4.2
Sum Cations:  178.0  Sum Anions:  162.0  Cations/Anions: 1.10   Tot. P:   6.1
Tot. Al:   73.7    Ext. Al:  12.9    Fe:    91.0       Mn:   42.0    SiO2:  3.96

ID: 1A1-056   Name: FORKED LAKE                       State: NY  Date: 16OCT84
Sample Type: REGULAR           Latitude: 43-54'00"N    Longitude: 74-35'00"W
Elevation:  531   Surface Temp: 13.2  Stratified: MIXED      Site Depth:   1.8
Lake Area:     514 Watershed Area:   49021 WA/LA:     95.4 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  2.4   Turbidity:   0.4      Color:    35
Closed pH: 6.46        Equil. pH: 6.87              ANC:   56.7          DOC:  3.75
Closed DIC:  0.86   Equil. DIC:  0.63    Meas. Cond:  28.7   Cal. Cond:  29.0
Ca:  134.6           Mg:    45.2        Na:    46.8         K:   12.2       NH4:   1.9
SO4:  134.1        HCO3:   44.8        Cl:    25.3        NO3:    4.0          F:   4.6
Sum Cations:  240.8  Sum Anions:  212.7  Cations/Anions: 1.13   Tot. P:   0.0
Tot. Al:   63.3    Ext. Al:   9.2    Fe:    77.0       Mn:   14.0    SiO2:  4.14

ID: 1A1-057   Name: HITCHCOCK LAKE                    State: NY  Date: 24OCT84
Sample Type: REG/SPC/NRC/      Latitude: 43-51'00"N    Longitude: 75-02'30"W
Elevation:  567   Surface Temp: 11.8  Stratified: MIXED      Site Depth:   7.0
Lake Area:      15 Watershed Area:     233 WA/LA:     15.3 Hydro Type: DRAINAGE
Residence Time:  0.27  Secchi Depth:  2.1   Turbidity:   0.5      Color:    30
Closed pH: 4.77        Equil. pH: 4.85              ANC:   -7.9          DOC:  5.12
Closed DIC:  0.62   Equil. DIC:  0.13    Meas. Cond:  22.5   Cal. Cond:  22.1
Ca:   62.7           Mg:    20.7        Na:    18.0         K:    9.6       NH4:   1.2
SO4:  117.8        HCO3:    1.2        Cl:     7.0        NO3:    0.4          F:   4.0
Sum Cations:  127.3  Sum Anions:  130.4  Cations/Anions: 0.98   Tot. P:   3.9
Tot. Al:  374.9    Ext. Al: 213.0    Fe:   104.0       Mn:   50.0    SiO2:  1.50

ID: 1A1-059   Name: SAGAMORE LAKE                     State: NY  Date: 16OCT84
Sample Type: REGULAR           Latitude: 43-46'00"N    Longitude: 74-37'30"W
Elevation:  580   Surface Temp: 12.0  Stratified: STRONG     Site Depth:  23.8
Lake Area:      67 Watershed Area:    4838 WA/LA:     72.6 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  3.3   Turbidity:   0.3      Color:    55
Closed pH: 6.16        Equil. pH: 6.69              ANC:   51.5          DOC:  5.89
Closed DIC:  0.87   Equil. DIC:  0.47    Meas. Cond:  30.3   Cal. Cond:  28.7
Ca:  140.4           Mg:    54.3        Na:    40.9         K:   10.4       NH4:   1.9
SO4:  147.1        HCO3:   11.9        Cl:    10.6        NO3:    7.2          F:   4.4
Sum Cations:  249.8  Sum Anions:  181.1  Cations/Anions: 1.38   Tot. P:   1.9
Tot. Al:  279.1    Ext. Al:  32.9    Fe:   113.0       Mn:   39.0    SiO2:  7.71
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A1-060   Name: SEVENTH L.(FULTON CHAIN)          State: NY  Date: 14OCT84
Sample Type: REGULAR             Latitude: 43-44'45"N   Longitude: 74-45'00"W
Elevation:  544   Surface Temp: 13.8  Stratified: STRONG    Site Depth:  27.4
Lake Area:    332 Watershed Area:    3740 WA/LA:    11.3 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  6.1   Turbidity:  0.1      Color:   15
Closed pH: 7.08         Equil. pH: 7.37             ANC:  155.0        DOC:  3.90
Closed DIC:  1.85   Equil. DIC:  1.65    Meas. Cond:  47.6   Cal. Cond:  45.9
Ca:  236.3          Mg:   63.8       Na:   78.8         K:  12.5      NH4:  1.4
SO4:  140.6       HCO3:  137.1       Cl:   66.6       NO3:  11.8        F:  3.3
Sum Cations:  392.9  Sum Anions:  359.7  Cations/Anions: 1.09   Tot. P:   0.0
Tot. Al:   90.9    Ext. Al:   14.6    Fe:   27.0      Mn:    0.0    SiO2:  3.81

ID: 1A1-061   Name: WOLF LAKE                         State: NY  Date: 30OCT84
Sample Type: REGULAR             Latitude: 43-37'45"N   Longitude: 74-39'15"W
Elevation:  791   Surface Temp: 10.5  Stratified: MIXED      Site Depth:   6.4
Lake Area:        5 Watershed Area:    207 WA/LA:    46.0 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  4.0   Turbidity:  0.3      Color:   35
Closed pH: 4.48         Equil. pH: 4.46             ANC:  -29.0        DOC:  5.83
Closed DIC:  0.63   Equil. DIC:  0.18    Meas. Cond:  31.2   Cal. Cond:  30.0
Ca:   29.1          Mg:   17.7       Na:   18.7         K:   4.2      NH4:  1.6
SO4:  142.9       HCO3:    0.5       Cl:   10.3       NO3:   0.9        F:  1.7
Sum Cations:  110.3  Sum Anions:  156.3  Cations/Anions: 0.71   Tot. P:   2.1
Tot. Al:  753.5    Ext. Al: 301.1    Fe:  172.0      Mn:   31.0    SiO2:  4.44

ID: 1A1-064   Name: MT ARAB LAKE                      State: NY  Date: 13OCT84
Sample Type: REGULAR             Latitude: 44-11'18"N   Longitude: 74-36'03"W
Elevation:  506   Surface Temp: 13.6  Stratified: MIXED      Site Depth:  12.5
Lake Area:      50 Watershed Area:    117 WA/LA:     2.3 Hydro Type: DRAINAGE
Residence Time:  3.65  Secchi Depth:  6.3   Turbidity:  0.2      Color:   10
Closed pH: 7.02         Equil. pH: 7.21             ANC:   89.3        DOC:  2.68
Closed DIC:  1.04   Equil. DIC:  1.01    Meas. Cond:  27.7   Cal. Cond:  26.6
Ca:  134.0          Mg:   40.8       Na:   40.3         K:   7.1      NH4:  0.1
SO4:  105.4       HCO3:   83.1       Cl:   19.8       NO3:   0.2        F:  4.7
Sum Cations:  222.4  Sum Anions:  213.3  Cations/Anions: 1.04   Tot. P:  49.8
Tot. Al:   14.3    Ext. Al:    2.5    Fe:   10.0      Mn:    0.0    SiO2:  0.41

ID: 1A1-065   Name: ROUND POND                        State: NY  Date: 18OCT84
Sample Type: REGULAR             Latitude: 44-07'29"N   Longitude: 73-44'01"W
Elevation:  525   Surface Temp: 13.0  Stratified: MIXED      Site Depth:   7.9
Lake Area:        7 Watershed Area:    135 WA/LA:    18.5 Hydro Type: DRAINAGE
Residence Time:  0.48  Secchi Depth:  3.3   Turbidity:  0.6      Color:   10
Closed pH: 6.94         Equil. pH: 7.06             ANC:   83.1        DOC:  2.23
Closed DIC:  1.15   Equil. DIC:  1.02    Meas. Cond:  21.5   Cal. Cond:  22.5
Ca:  137.3          Mg:   25.1       Na:   25.8         K:   1.2      NH4:  0.9
SO4:   95.7       HCO3:   75.5       Cl:    6.5       NO3:   0.1        F:  0.5
Sum Cations:  190.5  Sum Anions:  178.3  Cations/Anions: 1.07   Tot. P:   3.0
Tot. Al:   22.3    Ext. Al:    0.0    Fe:    2.0      Mn:    1.0    SiO2:  4.06

ID: 1A1-066   Name: WOODHULL LAKE                     State: NY  Date: 16OCT84
Sample Type: REGULAR             Latitude: 43-35'30"N   Longitude: 74-59'13"W
Elevation:  572   Surface Temp: 13.6  Stratified: STRONG    Site Depth:  27.4
Lake Area:    443 Watershed Area:    1821 WA/LA:     4.1 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  8.8   Turbidity:  0.1      Color:   10
Closed pH: 5.43         Equil. pH: 5.59             ANC:    5.8        DOC:  1.78
Closed DIC:  0.38   Equil. DIC:  0.20    Meas. Cond:  20.2   Cal. Cond:  19.8
Ca:   77.4          Mg:   25.1       Na:   23.2         K:   6.6      NH4:  2.0
SO4:  112.6       HCO3:    3.2       Cl:    8.6       NO3:  11.5        F:  3.0
Sum Cations:  137.8  Sum Anions:  138.8  Cations/Anions: 0.99   Tot. P:   0.0
Tot. Al:   69.5    Ext. Al:   37.1    Fe:   29.0      Mn:   44.0    SiO2:  1.35
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A1-067   Name: VANDERWHACKER POND               State: NY  Date: 12OCT84
Sample Type: REGULAR             Latitude: 43-57'28"N    Longitude: 74-00'10"W
Elevation:  600   Surface Temp: 11.9  Stratified: MIXED      Site Depth:   3.0
Lake Area:      9 Watershed Area:     109 WA/LA:     12.8 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  3.2   Turbidity:   0.3      Color:   30
Closed pH: 6.94       Equil. pH: 7.31             ANC:  133.5       DOC:  4.97
Closed DIC:  1.59   Equil. DIC:  1.47    Meas. Cond:  30.8   Cal. Cond:  32.7
Ca:  171.8          Mg:   74.2        Na:   39.6        K:    4.5     NH4:  1.6
SO4:  123.4       HCO3:  123.7       Cl:    8.5       NO3:   0.3        F:  0.7
Sum Cations:  291.7  Sum Anions:  256.9  Cations/Anions: 1.14   Tot. P:   1.8
Tot. Al:   96.0    Ext. Al:   5.7    Fe:   13.0      Mn:    6.0    SiO2:  2.65

ID: 1A1-068   Name: DEBAR POND                       State: NY  Date: 11OCT84
Sample Type: REGULAR             Latitude: 44-37'25"N    Longitude: 74-11'46"W
Elevation:  477   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   8.2
Lake Area:     36 Watershed Area:     736 WA/LA:     20.7 Hydro Type: DRAINAGE
Residence Time:  0.35  Secchi Depth:  3.3   Turbidity:   0.6      Color:   15
Closed pH: 7.14       Equil. pH: 7.59             ANC:  234.1       DOC:  3.47
Closed DIC:  2.64   Equil. DIC:  2.67    Meas. Cond:  40.6   Cal. Cond:  42.6
Ca:  236.1          Mg:  100.8        Na:   40.9        K:    7.0     NH4:  1.0
SO4:  128.9       HCO3:  209.3       Cl:    9.0       NO3:   0.0        F:  3.2
Sum Cations:  385.8  Sum Anions:  350.9  Cations/Anions: 1.10   Tot. P:   1.7
Tot. Al:   35.7    Ext. Al:   5.8    Fe:   11.0      Mn:    6.0    SiO2:  4.79

ID: 1A1-069   Name: ROLLINS POND                     State: NY  Date: 12OCT84
Sample Type: REGULAR             Latitude: 44-18'45"N    Longitude: 74-24'50"W
Elevation:  479   Surface Temp: 12.3  Stratified: WEAK       Site Depth:  16.2
Lake Area:    174 Watershed Area:    2955 WA/LA:     17.0 Hydro Type: DRAINAGE
Residence Time:  0.83  Secchi Depth:  2.3   Turbidity:   0.7      Color:   60
Closed pH: 6.82       Equil. pH: 7.41             ANC:  144.1       DOC:  5.83
Closed DIC:  1.96   Equil. DIC:  1.53    Meas. Cond:  31.4   Cal. Cond:  32.6
Ca:  177.4          Mg:   64.7        Na:   41.2        K:    9.8     NH4:  1.7
SO4:  108.9       HCO3:  129.9       Cl:   10.1       NO3:   3.9        F:  2.0
Sum Cations:  294.9  Sum Anions:  254.9  Cations/Anions: 1.16   Tot. P:   4.6
Tot. Al:   38.1    Ext. Al:   2.3    Fe:  285.0      Mn:   31.0    SiO2:  5.40

ID: 1A1-070   Name: PARADOX LAKE                     State: NY  Date: 18OCT84
Sample Type: REGULAR             Latitude: 43-53'00"N    Longitude: 73-42'30"W
Elevation:  249   Surface Temp: 14.4  Stratified: WEAK       Site Depth:  16.1
Lake Area:    381 Watershed Area:   12295 WA/LA:     32.3 Hydro Type: DRAINAGE
Residence Time:  0.58  Secchi Depth:  6.8   Turbidity:   0.3      Color:   15
Closed pH: 7.48       Equil. pH: 7.77             ANC:  334.0       DOC:  3.31
Closed DIC:  3.91   Equil. DIC:  3.65    Meas. Cond:  67.9   Cal. Cond:  70.4
Ca:  391.2          Mg:   93.5        Na:  121.1        K:    6.2     NH4:  1.1
SO4:  149.8       HCO3:  318.6       Cl:  120.2       NO3:   0.1        F:  2.3
Sum Cations:  613.1  Sum Anions:  592.2  Cations/Anions: 1.04   Tot. P:   3.5
Tot. Al:   20.2    Ext. Al:   0.0    Fe:    5.0      Mn:    0.0    SiO2:  3.35

ID: 1A1-071   Name: BLACK POND                       State: NY  Date: 11OCT84
Sample Type: REGULAR             Latitude: 44-26'21"N    Longitude: 74-17'38"W
Elevation:  497   Surface Temp: 11.8  Stratified: MIXED      Site Depth:   7.3
Lake Area:     30 Watershed Area:     231 WA/LA:      7.6 Hydro Type: DRAINAGE
Residence Time:  0.79  Secchi Depth:  4.6   Turbidity:   0.3      Color:   20
Closed pH: 6.94       Equil. pH: 7.61             ANC:  231.6       DOC:  3.35
Closed DIC:  2.90   Equil. DIC:  2.71    Meas. Cond:  40.3   Cal. Cond:  44.7
Ca:  239.6          Mg:  105.5        Na:   52.2        K:   10.5     NH4:  1.3
SO4:  133.2       HCO3:  217.3       Cl:   10.3       NO3:   0.4        F:  2.9
Sum Cations:  409.1  Sum Anions:  364.6  Cations/Anions: 1.12   Tot. P:   9.2
Tot. Al:   17.7    Ext. Al:   6.2    Fe:   29.0      Mn:   26.0    SiO2:  8.46
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A1-073   Name: GULL LAKES (SOUTH)              State: NY  Date: 14OCT84
Sample Type: REGULAR            Latitude: 43-51'22"N    Longitude: 74-49'15"W
Elevation:  594   Surface Temp: 12.8  Stratified: MIXED     Site Depth:   3.0
Lake Area:      10 Watershed Area:      70 WA/LA:      7.1 Hydro Type: DRAINAGE
Residence Time:  0.25  Secchi Depth:  3.0   Turbidity:   0.2      Color:   10
Closed pH: 5.01        Equil. pH: 4.71               ANC:   -9.4         DOC:  2.11
Closed DIC:  0.49   Equil. DIC:  0.13    Meas. Cond:  29.4   Cal. Cond:  26.4
Ca:   56.2          Mg:    19.2        Na:    21.8        K:    6.1      NH4:  7.4
SO4:  153.8       HCO3:     0.8       Cl:     5.1       NO3:    5.2        F:  3.5
Sum Cations:  129.8  Sum Anions:  168.3  Cations/Anions: 0.77   Tot. P:   0.5
Tot. Al:  362.6    Ext. Al: 268.0     Fe:   107.0      Mn:    41.0    SiO2:  0.61

ID: 1A1-074   Name: MIDDLE SARANAC LAKE             State: NY  Date: 13OCT84
Sample Type: REGULAR            Latitude: 44-15'37"N    Longitude: 74-16'00"W
Elevation:  469   Surface Temp: 12.8  Stratified: MIXED     Site Depth:   6.4
Lake Area:     567 Watershed Area:  23711 WA/LA:     41.8 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  4.3   Turbidity:   0.3      Color:   20
Closed pH: 7.36        Equil. pH: 7.68               ANC:  178.0         DOC:  4.14
Closed DIC:  2.09   Equil. DIC:  1.99    Meas. Cond:  40.9   Cal. Cond:  41.4
Ca:  202.2          Mg:    80.7        Na:    71.1        K:    9.1      NH4:  1.5
SO4:  118.7       HCO3:   162.4       Cl:    50.6       NO3:    1.0        F:  2.0
Sum Cations:  364.6  Sum Anions:  335.1  Cations/Anions: 1.09   Tot. P:   6.6
Tot. Al:    9.6    Ext. Al:   3.5     Fe:    42.0      Mn:     7.0    SiO2:  2.01

ID: 1A2-001   Name: TWIN PONDS (EASTERN)            State: NY  Date: 30OCT84
Sample Type: REGULAR            Latitude: 43-40'20"N    Longitude: 74-10'20"W
Elevation:  637   Surface Temp: 10.2  Stratified: MIXED     Site Depth:   0.9
Lake Area:       5 Watershed Area:     218 WA/LA:     40.4 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.3   Turbidity:   1.1      Color:   50
Closed pH: 6.62        Equil. pH: 7.35               ANC:  166.7         DOC:  7.65
Closed DIC:  2.46   Equil. DIC:  1.75    Meas. Cond:  26.8   Cal. Cond:  27.1
Ca:  130.1          Mg:    66.5        Na:    49.2        K:    9.0      NH4:  1.1
SO4:   64.8       HCO3:   141.4       Cl:    11.7       NO3:    0.4        F:  2.7
Sum Cations:  256.1  Sum Anions:  221.1  Cations/Anions: 1.16   Tot. P:  15.8
Tot. Al:  111.5    Ext. Al:  12.9     Fe:    26.0      Mn:    16.0    SiO2:  3.03

ID: 1A2-002   Name: ST. JOHN LAKE                   State: NY  Date: 30OCT84
Sample Type: REGULAR            Latitude: 43-26'30"N    Longitude: 74-03'40"W
Elevation:  673   Surface Temp: 11.7  Stratified: MIXED     Site Depth:  10.7
Lake Area:      13 Watershed Area:     148 WA/LA:     11.5 Hydro Type: DRAINAGE
Residence Time:  0.80  Secchi Depth: 11.0   Turbidity:   0.2      Color:   10
Closed pH: 5.42        Equil. pH: 5.54               ANC:    6.2         DOC:  1.77
Closed DIC:  0.41   Equil. DIC:  0.12    Meas. Cond:  18.6   Cal. Cond:  19.9
Ca:   73.9          Mg:    25.7        Na:    23.8        K:    1.6      NH4:  1.8
SO4:  133.9       HCO3:     3.8       Cl:     6.4       NO3:    1.4        F:  2.4
Sum Cations:  130.1  Sum Anions:  147.9  Cations/Anions: 0.88   Tot. P:   2.6
Tot. Al:  103.1    Ext. Al:  41.1     Fe:    36.0      Mn:    36.0    SiO2:  1.14

ID: 1A2-004   Name: DUCK LAKE                       State: NY  Date: 31OCT84
Sample Type: REGULAR            Latitude: 43-14'08"N    Longitude: 74-27'09"W
Elevation:  704   Surface Temp: 10.8  Stratified: MIXED     Site Depth:   5.5
Lake Area:      10 Watershed Area:     212 WA/LA:     21.0 Hydro Type: DRAINAGE
Residence Time:  0.23  Secchi Depth:  5.5   Turbidity:   0.2      Color:   15
Closed pH: 4.67        Equil. pH: 4.68               ANC:  -17.6         DOC:  2.15
Closed DIC:  0.42   Equil. DIC:  0.12    Meas. Cond:  23.8   Cal. Cond:  22.6
Ca:   36.1          Mg:    13.7        Na:    17.0        K:    2.2      NH4:  2.5
SO4:  118.2       HCO3:     0.8       Cl:     5.6       NO3:    4.8        F:  1.4
Sum Cations:   94.9  Sum Anions:  130.9  Cations/Anions: 0.73   Tot. P:  11.8
Tot. Al:  521.0    Ext. Al: 243.2     Fe:    39.0      Mn:    19.0    SiO2:  0.85
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A2-005   Name: MUD POND                                State: NY  Date: 11OCT84
Sample Type: REGULAR              Latitude: 44-44'10"N    Longitude: 74-03'55"W
Elevation:  529   Surface Temp:  9.5  Stratified: MIXED      Site Depth:   5.2
Lake Area:      19 Watershed Area:     686 WA/LA:    36.1 Hydro Type: DRAINAGE
Residence Time:  0.17  Secchi Depth:  0.7   Turbidity:   0.8      Color:   150
Closed pH: 6.01        Equil. pH: 6.97              ANC:  108.4          DOC: 15.14
Closed DIC:  2.51   Equil. DIC:  0.83    Meas. Cond:  31.8   Cal. Cond:  32.3
Ca:  175.8             Mg:    88.0        Na:    50.5          K:   8.2      NH4:   1.9
SO4:  117.4        HCO3:    66.1        Cl:    15.2         NO3:   0.5          F:   4.4
Sum Cations:  324.7  Sum Anions:  203.6  Cations/Anions: 1.59   Tot. P:   6.8
Tot. Al:  211.2    Ext. Al:  16.7     Fe:  391.0       Mn:   30.0     SiO2:  5.29

ID: 1A2-006   Name: LAKE FRANCES                            State: NY  Date: 11OCT84
Sample Type: REGULAR              Latitude: 44-41'45"N    Longitude: 74-19'30"W
Elevation:  454   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   4.5
Lake Area:       6 Watershed Area:      96 WA/LA:    15.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.4   Turbidity:   0.6      Color:    20
Closed pH: 6.24        Equil. pH: 6.68              ANC:   42.5          DOC:  4.58
Closed DIC:  0.63   Equil. DIC:  0.49    Meas. Cond:  20.2   Cal. Cond:  22.1
Ca:  115.3             Mg:    33.1        Na:    24.7          K:   9.2      NH4:   0.9
SO4:  115.4        HCO3:    30.9        Cl:     7.8         NO3:   1.3          F:   2.2
Sum Cations:  183.5  Sum Anions:  157.5  Cations/Anions: 1.16   Tot. P:   8.8
Tot. Al:   33.1    Ext. Al:   7.6     Fe:   16.0       Mn:   21.0     SiO2:  0.09

ID: 1A2-008   Name: CLEAR POND                              State: NY  Date: 13OCT84
Sample Type: REGULAR              Latitude: 44-33'20"N    Longitude: 74-46'30"W
Elevation:- 396   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   7.0
Lake Area:      14 Watershed Area:      49 WA/LA:     3.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.5   Turbidity:   0.6      Color:    20
Closed pH: 6.93        Equil. pH: 7.28              ANC:  115.0          DOC:  4.44
Closed DIC:  1.58   Equil. DIC:  1.24    Meas. Cond:  28.8   Cal. Cond:  28.8
Ca:  140.4             Mg:    69.5        Na:    29.8          K:  12.4      NH4:   1.0
SO4:  102.3        HCO3:   111.0        Cl:    10.2         NO3:   0.0          F:   5.9
Sum Cations:  253.2  Sum Anions:  229.7  Cations/Anions: 1.10   Tot. P:   4.1
Tot. Al:   16.7    Ext. Al:   3.6     Fe:   29.0       Mn:    6.0     SiO2:  0.34

ID: 1A2-009   Name: WELLER POND                             State: NY  Date: 13OCT84
Sample Type: REGULAR              Latitude: 44-31'30"N    Longitude: 74-36'00"W
Elevation:  454   Surface Temp: 10.7  Stratified: MIXED      Site Depth:   2.7
Lake Area:      21 Watershed Area:     225 WA/LA:    10.7 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  2.2   Turbidity:   0.3      Color:    50
Closed pH: 5.86        Equil. pH: 6.48              ANC:   29.0          DOC:  5.00
Closed DIC:  1.10   Equil. DIC:  0.31    Meas. Cond:  22.3   Cal. Cond:  21.3
Ca:  104.1             Mg:    32.0        Na:    30.5          K:   5.4      NH4:   3.4
SO4:  107.1        HCO3:    26.8        Cl:     7.5         NO3:   7.5          F:   3.0
Sum Cations:  175.9  Sum Anions:  151.9  Cations/Anions: 1.16   Tot. P:   8.3
Tot. Al:  180.8    Ext. Al:  28.1     Fe:  209.0       Mn:   29.0     SiO2:  1.05

ID: 1A2-010   Name: BLAKE FALLS RES                         State: NY  Date: 13OCT84
Sample Type: REGULAR              Latitude: 44-28'45"N    Longitude: 74-45'15"W
Elevation:  381   Surface Temp: 12.7  Stratified: MIXED      Site Depth:  12.8
Lake Area:     261 Watershed Area: 229433 WA/LA:   880.4 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  3.0   Turbidity:   0.6      Color:    30
Closed pH: 6.82        Equil. pH: 7.30              ANC:  119.8          DOC:  4.79
Closed DIC:  1.61   Equil. DIC:  1.26    Meas. Cond:  36.4   Cal. Cond:  36.1
Ca:  173.9             Mg:    61.4        Na:    62.1          K:  10.6      NH4:   3.1
SO4:  124.7        HCO3:   111.0        Cl:    35.9         NO3:   7.1          F:   3.6
Sum Cations:  311.2  Sum Anions:  282.5  Cations/Anions: 1.10   Tot. P:   4.2
Tot. Al:   46.7    Ext. Al:   5.8     Fe:   83.0       Mn:    7.0     SiO2:  4.12
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A2-011   Name: BOYD POND                         State: NY  Date: 25OCT84
Sample Type: REGULAR            Latitude: 44-23'30"N   Longitude: 75-05'45"W
Elevation:  268   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   4.0
Lake Area:      34 Watershed Area:     236 WA/LA:      6.9 Hydro Type: DRAINAGE
Residence Time:  0.47  Secchi Depth:  2.5   Turbidity:   0.4      Color:   28
Closed pH: 6.88        Equil. pH: 7.25              ANC:  139.2        DOC:  4.70
Closed DIC:  1.77   Equil. DIC:  1.43    Meas. Cond:  34.8   Cal. Cond:  37.2
Ca:  199.8           Mg:    91.5       Na:    26.6          K:   6.1       NH4:  1.1
SO4:  145.0        HCO3:  120.3       Cl:    14.7       NO3:   0.4          F:  7.7
Sum Cations:  325.2  Sum Anions:  288.3  Cations/Anions: 1.13   Tot. P:   5.8
Tot. Al:    41.1    Ext. Al:    6.9    Fe:    11.5      Mn:     3.0    SiO2:  0.76

ID: 1A2-012   Name: MCDONALD POND                     State: NY  Date: 11OCT84
Sample Type: REGULAR            Latitude: 44-23'45"N   Longitude: 74-31'40"W
Elevation:  466   Surface Temp: 10.0  Stratified: MIXED      Site Depth:   1.5
Lake Area:      31 Watershed Area:     378 WA/LA:     12.2 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  2.0   Turbidity:   1.1      Color:   70
Closed pH: 6.74        Equil. pH: 7.40              ANC:  182.8        DOC:  8.33
Closed DIC:  2.45   Equil. DIC:  1.95    Meas. Cond:  33.6   Cal. Cond:  36.0
Ca:  181.5           Mg:   105.9       Na:    44.8          K:  11.2       NH4:  2.3
SO4:  105.5        HCO3:  153.2       Cl:     9.1       NO3:   1.6          F:  4.1
Sum Cations:  345.8  Sum Anions:  273.8  Cations/Anions: 1.26   Tot. P:  10.5
Tot. Al:    84.5    Ext. Al:    7.3    Fe:   440.0      Mn:     6.0    SiO2:  1.06

ID: 1A2-013   Name: CLEAR POND                        State: NY  Date: 13OCT84
Sample Type: REGULAR            Latitude: 44-20'00"N   Longitude: 74-48'40"W
Elevation:  445   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   1.8
Lake Area:      13 Watershed Area:      57 WA/LA:      4.6 Hydro Type: DRAINAGE
Residence Time:  0.31  Secchi Depth:  2.2   Turbidity:   0.3      Color:   10
Closed pH: 7.07        Equil. pH: 7.54              ANC:  206.4        DOC:  2.63
Closed DIC:  2.55   Equil. DIC:  2.35    Meas. Cond:  42.0   Cal. Cond:  44.1
Ca:  216.7           Mg:    82.3       Na:    58.0          K:  20.2       NH4:  1.9
SO4:  150.9        HCO3:  197.2       Cl:    12.2       NO3:   2.4          F:  5.5
Sum Cations:  379.2  Sum Anions:  368.6  Cations/Anions: 1.03   Tot. P:   3.1
Tot. Al:    31.6    Ext. Al:   13.1    Fe:     0.0      Mn:     3.0    SiO2:  4.68

ID: 1A2-015   Name: SMITH POND                        State: NY  Date: 17OCT84
Sample Type: REGULAR            Latitude: 44-15'00"N   Longitude: 75-13'25"W
Elevation:  241   Surface Temp: 13.2  Stratified: STRONG     Site Depth:   9.2
Lake Area:       5 Watershed Area:      39 WA/LA:      8.3 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  4.2   Turbidity:   0.6      Color:   18
Closed pH: 6.26        Equil. pH: 6.57              ANC:   29.6        DOC:  3.81
Closed DIC:  0.62   Equil. DIC:  0.38    Meas. Cond:  12.4   Cal. Cond:  28.1
Ca:   66.5           Mg:    23.3       Na:   161.8          K:  11.7       NH4:  0.7
SO4:   69.9        HCO3:   32.0       Cl:    86.6       NO3:   0.2          F:  1.4
Sum Cations:  264.6  Sum Anions:  190.0  Cations/Anions: 1.39   Tot. P:   4.8
Tot. Al:    16.9    Ext. Al:    7.2    Fe:    31.0      Mn:    23.5    SiO2:  1.15

ID: 1A2-016   Name: STAR LAKE                         State: NY  Date: 24OCT84
Sample Type: REGULAR            Latitude: 44-09'30"N   Longitude: 75-02'45"W
Elevation:  441   Surface Temp: 13.1  Stratified: MIXED      Site Depth:  11.6
Lake Area:      85 Watershed Area:     269 WA/LA:      3.2 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  5.2   Turbidity:   0.4      Color:    0
Closed pH: 7.02        Equil. pH: 7.36              ANC:  145.8        DOC:  1.99
Closed DIC:  1.92   Equil. DIC:  1.65    Meas. Cond:  38.1   Cal. Cond:  41.9
Ca:  166.8           Mg:    54.8       Na:   111.8          K:  15.2       NH4:  0.8
SO4:  116.3        HCO3:  133.6       Cl:    89.1       NO3:   0.0          F:  3.3
Sum Cations:  349.4  Sum Anions:  342.6  Cations/Anions: 1.02   Tot. P:   8.5
Tot. Al:    10.1    Ext. Al:    7.1    Fe:    24.0      Mn:     4.0    SiO2:  0.16
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A2-018   Name: TWIN PONDS (EASTERN)            State: NY  Date: 24OCT84
Sample Type: REGULAR            Latitude: 43-59'15"N    Longitude: 75-13'30"W
Elevation:  413   Surface Temp: 12.3  Stratified: STRONG     Site Depth:  10.1
Lake Area:       5 Watershed Area:      28 WA/LA:      5.3 Hydro Type: DRAINAGE
Residence Time:  1.12  Secchi Depth:  2.2  Turbidity:   1.1      Color:    35
Closed pH: 4.73        Equil. pH: 4.76              ANC:  -13.2         DOC:  5.23
Closed DIC:  0.79  Equil. DIC:  0.14   Meas. Cond:  23.5   Cal. Cond:  23.8
Ca:   57.9          Mg:   20.7       Na:    19.8        K:   8.8       NH4:   1.6
SO4:  122.5       HCO3:     0.9       Cl:     9.1      NO3:   0.6          F:  4.6
Sum Cations:  127.8  Sum Anions:  137.7  Cations/Anions: 0.93   Tot. P:    3.6
Tot. Al:  307.5    Ext. Al:  69.8    Fe:  205.0      Mn:   38.0    SiO2:  2.26

ID: 1A2-021   Name: MOSHER PONDS (SOUTHERN)         State: NY  Date: 24OCT84
Sample Type: REGULAR            Latitude: 43-56'00"N    Longitude: 75-04'15"W
Elevation:  567   Surface Temp:  9.7  Stratified: MIXED      Site Depth:   1.8
Lake Area:      12 Watershed Area:     544 WA/LA:     44.6 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.7  Turbidity:   0.6      Color:    35
Closed pH: 4.70        Equil. pH: 4.74              ANC:  -14.1         DOC:  4.66
Closed DIC:  0.73  Equil. DIC:  0.16   Meas. Cond:  22.9   Cal. Cond:  22.4
Ca:   50.3          Mg:   18.2       Na:    23.2        K:   7.3       NH4:   1.3
SO4:  103.1       HCO3:     0.9       Cl:    10.9      NO3:   2.9          F:  3.2
Sum Cations:  120.7  Sum Anions:  121.0  Cations/Anions: 1.00   Tot. P:    3.1
Tot. Al:  290.5    Ext. Al: 174.8    Fe:  200.0      Mn:   38.0    SiO2:  3.15

ID: 1A2-022   Name: PAYNE LAKE                      State: NY  Date: 24OCT84
Sample Type: REGULAR            Latitude: 43-47'40"N    Longitude: 75-17'30"W
Elevation:  373   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   4.6
Lake Area:       7 Watershed Area:      31 WA/LA:      4.3 Hydro Type: SEEPAGE
Residence Time:     *  Secchi Depth:  2.7  Turbidity:   0.7      Color:    25
Closed pH: 6.86        Equil. pH: 7.55              ANC:  225.8         DOC:  5.18
Closed DIC:  3.19  Equil. DIC:  2.44   Meas. Cond:  30.6   Cal. Cond:  31.9
Ca:  243.7          Mg:   37.0       Na:     4.7        K:   9.6       NH4:   8.0
SO4:   55.6       HCO3:   196.6       Cl:     6.4      NO3:   1.1          F:  2.1
Sum Cations:  303.0  Sum Anions:  262.0  Cations/Anions: 1.16   Tot. P:   15.0
Tot. Al:   27.0    Ext. Al:   7.2    Fe:  114.0      Mn:   17.0    SiO2:  0.26

ID: 1A2-023   Name: PANTHER POND                    State: NY  Date: 24OCT84
Sample Type: REGULAR            Latitude: 43-49'15"N    Longitude: 75-10'15"W
Elevation:  460   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   0.9
Lake Area:       6 Watershed Area:      44 WA/LA:      7.9 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  1.7  Turbidity:   1.2      Color:    45
Closed pH: 4.99        Equil. pH: 5.00              ANC:   -2.6         DOC:  5.83
Closed DIC:  0.42  Equil. DIC:  0.10   Meas. Cond:  22.3   Cal. Cond:  22.4
Ca:   66.7          Mg:   24.6       Na:    27.2        K:   8.6       NH4:   3.2
SO4:  117.6       HCO3:     1.1       Cl:    15.9      NO3:   0.5          F:  7.5
Sum Cations:  141.0  Sum Anions:  142.6  Cations/Anions: 0.99   Tot. P:    8.1
Tot. Al:  270.2    Ext. Al: 157.5    Fe:  179.0      Mn:   31.0    SiO2:  1.31

ID: 1A2-024   Name: BIG OTTER LAKE                  State: NY  Date: 14OCT84
Sample Type: REGULAR            Latitude: 43-43'48"N    Longitude: 75-06'23"W
Elevation:  483   Surface Temp: 12.6  Stratified: MIXED      Site Depth:   6.4
Lake Area:      97 Watershed Area:    5462 WA/LA:     56.5 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  2.6  Turbidity:   0.8      Color:    55
Closed pH: 5.73        Equil. pH: 6.07              ANC:   24.9         DOC:  5.98
Closed DIC:  0.70  Equil. DIC:  0.24   Meas. Cond:  22.9   Cal. Cond:  20.2
Ca:   90.9          Mg:   29.6       Na:    36.0        K:   8.9       NH4:   1.4
SO4:  103.5       HCO3:    13.5       Cl:    10.2      NO3:   4.5          F:  4.7
Sum Cations:  168.0  Sum Anions:  136.3  Cations/Anions: 1.23   Tot. P:   26.0
Tot. Al:  239.8    Ext. Al:  86.8    Fe:  148.0      Mn:   43.0    SiO2:  5.39
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A2-026   Name: OTTER LAKE                         State: NY  Date: 16OCT84
Sample Type: REGULAR             Latitude: 43-35'30"N    Longitude: 75-07'00"W
Elevation:  462   Surface Temp: 13.4  Stratified: MIXED      Site Depth:   2.1
Lake Area:      57 Watershed Area:     477 WA/LA:     8.4 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  1.9  Turbidity:   0.7      Color:   53
Closed pH: 7.01        Equil. pH: 7.50             ANC:  205.4        DOC:  5.80
Closed DIC:  2.38   Equil. DIC:  2.14    Meas. Cond:  61.4   Cal. Cond:  64.3
Ca:  271.1          Mg:   64.2       Na:  238.5        K:  17.8       NH4:  1.9
SO4:  107.5       HCO3:  170.8       Cl:  190.6      NO3:   3.8         F:  5.9
Sum Cations:  593.6  Sum Anions:  478.7  Cations/Anions: 1.24   Tot. P:   2.1
Tot. Al:   62.3    Ext. Al:   5.3    Fe:  141.5      Mn:   10.5    SiO2:  3.33

ID: 1A2-027   Name: TAYLOR POND                        State: NY  Date: 12OCT84
Sample Type: REGULAR             Latitude: 44-29'15"N    Longitude: 73-51'00"W
Elevation:  425   Surface Temp: 12.5  Stratified: WEAK       Site Depth:  21.0
Lake Area:     333 Watershed Area:    2805 WA/LA:     8.4 Hydro Type: DRAINAGE
Residence Time:  3.48  Secchi Depth:  5.5  Turbidity:   0.3      Color:   15
Closed pH: 7.14        Equil. pH: 7.45             ANC:  168.4        DOC:  2.93
Closed DIC:  2.14   Equil. DIC:  1.96    Meas. Cond:  36.2   Cal. Cond:  39.2
Ca:  202.8          Mg:   82.3       Na:   44.4        K:   8.8       NH4:  1.4
SO4:  148.9       HCO3:  149.2       Cl:   13.2      NO3:   0.4         F:  3.2
Sum Cations:  339.8  Sum Anions:  315.3  Cations/Anions: 1.08   Tot. P:   4.3
Tot. Al:   26.4    Ext. Al:   4.3    Fe:    9.0      Mn:    0.0    SiO2:  2.30

ID: 1A2-028   Name: OWEN POND                          State: NY  Date: 12OCT84
Sample Type: REGULAR             Latitude: 44-19'15"N    Longitude: 73-54'05"W
Elevation:  515   Surface Temp:  9.3  Stratified: MIXED      Site Depth:   9.6
Lake Area:       8 Watershed Area:    1140 WA/LA:   135.7 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  2.3  Turbidity:   0.4      Color:   35
Closed pH: 6.42        Equil. pH: 7.27             ANC:  105.1        DOC:  4.44
Closed DIC:  2.13   Equil. DIC:  1.10    Meas. Cond:  35.8   Cal. Cond:  38.6
Ca:  214.3          Mg:   54.8       Na:   36.9        K:   6.4       NH4:  4.3
SO4:  173.0       HCO3:  105.0       Cl:   11.3      NO3:  12.3         F:  1.3
Sum Cations:  316.7  Sum Anions:  303.0  Cations/Anions: 1.05   Tot. P:   4.9
Tot. Al:  174.7    Ext. Al:  24.0    Fe:   72.0      Mn:   19.0    SiO2:  7.85

ID: 1A2-031   Name: BELLOWS LAKE                       State: NY  Date: 31OCT84
Sample Type: REGULAR             Latitude: 43-10'45"N    Longitude: 74-27'45"W
Elevation:  544   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   5.2
Lake Area:      12 Watershed Area:    1570 WA/LA:   131.9 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  5.5  Turbidity:   0.3      Color:   10
Closed pH: 5.24        Equil. pH: 5.30             ANC:    2.6        DOC:  0.94
Closed DIC:  0.31   Equil. DIC:  0.15    Meas. Cond:  19.0   Cal. Cond:  17.5
Ca:   44.3          Mg:   21.6       Na:   25.7        K:   3.8       NH4:  7.2
SO4:  109.8       HCO3:    3.0       Cl:    6.9      NO3:   3.8         F:  1.6
Sum Cations:  107.9  Sum Anions:  125.2  Cations/Anions: 0.86   Tot. P:  23.7
Tot. Al:  167.5    Ext. Al:  49.9    Fe:   24.0      Mn:   25.0    SiO2:  2.21

ID: 1A2-032   Name: HORSESHOE POND                     State: NY  Date: 18OCT84
Sample Type: REGULAR             Latitude: 43-49'45"N    Longitude: 73-48'30"W
Elevation:  387   Surface Temp: 13.1  Stratified: WEAK       Site Depth:  10.4
Lake Area:      17 Watershed Area:     197 WA/LA:    11.7 Hydro Type: DRAINAGE
Residence Time:  0.97  Secchi Depth:  3.3  Turbidity:   0.4      Color:   25
Closed pH: 7.16        Equil. pH: 7.59             ANC:  223.2        DOC:  3.40
Closed DIC:  2.86   Equil. DIC:  2.51    Meas. Cond:  38.9   Cal. Cond:  41.6
Ca:  242.4          Mg:   67.5       Na:   58.2        K:   4.5       NH4:  0.9
SO4:  120.9       HCO3:  217.5       Cl:   11.2      NO3:   0.1         F:  1.2
Sum Cations:  373.4  Sum Anions:  351.4  Cations/Anions: 1.06   Tot. P:   5.9
Tot. Al:   20.9    Ext. Al:   0.0    Fe:   14.0      Mn:    0.0    SiO2:  3.42
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A2-033   Name: GOOSENECK POND                    State: NY  Date: 18OCT84
Sample Type: REGULAR            Latitude: 43-51'41"N    Longitude: 73-36'30"W
Elevation:  377   Surface Temp: 13.6  Stratified: WEAK      Site Depth:  13.4
Lake Area:      30 Watershed Area:     238 WA/LA:      7.9 Hydro Type: DRAINAGE
Residence Time:  1.76  Secchi Depth:  8.3   Turbidity:   0.2      Color:    10
Closed pH: 7.10        Equil. pH: 7.23             ANC:  124.3        DOC:  2.25
Closed DIC:  1.67   Equil. DIC:  1.48    Meas. Cond:  32.0   Cal. Cond:  35.9
Ca:  208.0          Mg:   58.2       Na:   29.6        K:   6.2       NH4:  0.8
SO4:  153.0       HCO3:  113.9       Cl:   12.5      NO3:   0.0         F:  2.8
Sum Cations:  302.8  Sum Anions:  282.4  Cations/Anions: 1.07   Tot. P:   0.8
Tot. Al:     9.9    Ext. Al:   0.0    Fe:     0.0     Mn:     0.0    SiO2:  1.64

ID: 1A2-034   Name: SPECTACLE POND                    State: NY  Date: 18OCT84
Sample Type: REGULAR            Latitude: 43-48'45"N    Longitude: 73-42'15"W
Elevation:  354   Surface Temp: 11.9  Stratified: MIXED     Site Depth:   5.5
Lake Area:      11 Watershed Area:     207 WA/LA:     18.5 Hydro Type: DRAINAGE
Residence Time:  0.34  Secchi Depth:  2.1   Turbidity:   0.6      Color:    55
Closed pH: 6.85        Equil. pH: 7.49             ANC:  368.5        DOC:  7.75
Closed DIC:  5.67   Equil. DIC:  3.90    Meas. Cond:  50.6   Cal. Cond:  54.1
Ca:  387.2          Mg:   74.0       Na:   37.4        K:   8.5       NH4:  1.1
SO4:   99.9       HCO3:  349.7       Cl:   10.2      NO3:   0.3         F:  3.0
Sum Cations:  508.3  Sum Anions:  463.5  Cations/Anions: 1.10   Tot. P:  10.9
Tot. Al:    33.5    Ext. Al:   3.3    Fe:    51.0     Mn:     6.0    SiO2:  4.81

ID: 1A2-035   Name: BRANT LAKE                        State: NY  Date: 18OCT84
Sample Type: REGULAR            Latitude: 43-42'30"N    Longitude: 73-42'30"W
Elevation:  244   Surface Temp: 14.9  Stratified: MIXED     Site Depth:   9.8
Lake Area:     595 Watershed Area:   10142 WA/LA:     17.0 Hydro Type: DRAINAGE
Residence Time:  0.65  Secchi Depth:  4.6   Turbidity:   0.4      Color:    15
Closed pH: 7.61        Equil. pH: 7.87             ANC:  381.4        DOC:  3.00
Closed DIC:  4.48   Equil. DIC:  4.19    Meas. Cond:  70.8   Cal. Cond:  76.9
Ca:  430.1          Mg:   96.3       Na:  134.9        K:   9.7       NH4:  0.9
SO4:  154.0       HCO3:  355.1       Cl:  134.7      NO3:   0.1         F:  3.1
Sum Cations:  672.0  Sum Anions:  648.4  Cations/Anions: 1.04   Tot. P:   2.5
Tot. Al:    12.7    Ext. Al:   0.0    Fe:     1.0     Mn:     0.0    SiO2:  2.62

ID: 1A2-036   Name: LILY POND                         State: NY  Date: 03NOV84
Sample Type: REGULAR            Latitude: 43-42'15"N    Longitude: 73-40'15"W
Elevation:  366   Surface Temp:  9.4  Stratified: MIXED     Site Depth:   1.2
Lake Area:      21 Watershed Area:     591 WA/LA:     28.7 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.5   Turbidity:   0.5      Color:    45
Closed pH: 7.00        Equil. pH: 7.47             ANC:  191.8        DOC:  6.51
Closed DIC:  2.27   Equil. DIC:  2.00    Meas. Cond:  32.1   Cal. Cond:  32.9
Ca:  216.0          Mg:   48.1       Na:   35.3        K:   9.8       NH4:  3.3
SO4:   84.3       HCO3:  150.4       Cl:   11.2      NO3:   1.9         F:  5.5
Sum Cations:  312.7  Sum Anions:  253.3  Cations/Anions: 1.23   Tot. P:   6.0
Tot. Al:   147.7    Ext. Al:   7.4    Fe:    71.0     Mn:    12.0    SiO2:  4.19

ID: 1A2-037   Name: FISH PONDS (NORTHEAST)            State: NY  Date: 30OCT84
Sample Type: REGULAR            Latitude: 43-32'50"N    Longitude: 74-03'40"W
Elevation:  486   Surface Temp: 11.2  Stratified: MIXED     Site Depth:   4.0
Lake Area:       8 Watershed Area:    1036 WA/LA:    123.3 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  2.1   Turbidity:   1.1      Color:    55
Closed pH: 6.56        Equil. pH: 7.39             ANC:  170.3        DOC:  5.56
Closed DIC:  2.87   Equil. DIC:  1.74    Meas. Cond:  31.1   Cal. Cond:  30.9
Ca:  146.2          Mg:   69.8       Na:   40.1        K:  10.0       NH4:  5.6
SO4:   91.0       HCO3:  145.7       Cl:   15.6      NO3:   2.1         F:  2.2
Sum Cations:  271.9  Sum Anions:  256.9  Cations/Anions: 1.06   Tot. P:   9.5
Tot. Al:   116.0    Ext. Al:   9.9    Fe:   182.0     Mn:    12.0    SiO2:  5.76
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A2-038   Name: COD POND                         State: NY  Date: 30OCT84
Sample Type: REGULAR           Latitude: 43-31'00"N   Longitude: 74-08'30"W
Elevation:  462   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   1.2
Lake Area:      20 Watershed Area:     93 WA/LA:     4.7 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  1.5   Turbidity:   0.7      Color:   30
Closed pH: 6.75       Equil. pH: 7.24             ANC:   132.1       DOC:  6.70
Closed DIC:  1.65   Equil. DIC:  1.20    Meas. Cond:  23.4   Cal. Cond:  24.5
Ca:  141.1          Mg:    43.2      Na:    38.6        K:    2.8      NH4:  1.2
SO4:   78.3      HCO3:  102.6       Cl:     8.4      NO3:    0.1         F:  1.3
Sum Cations:  227.0  Sum Anions:   190.7  Cations/Anions: 1.19   Tot. P:   7.2
Tot. Al:    56.4    Ext. Al:    5.0     Fe:    27.0      Mn:     0.0    SiO2:  1.87

ID: 1A2-039   Name: OXBOW LAKE                       State: NY  Date: 30OCT84
Sample Type: REGULAR           Latitude: 43-26'30"N   Longitude: 74-29'00"W
Elevation:  519   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   2.0
Lake Area:     116 Watershed Area:   1329 WA/LA:    11.4 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  2.4   Turbidity:   0.4      Color:   40
Closed pH: 7.18       Equil. pH: 7.34             ANC:   150.3       DOC:  5.48
Closed DIC:  1.64   Equil. DIC:  1.48    Meas. Cond:  34.3   Cal. Cond:  36.8
Ca:  164.2          Mg:    75.8      Na:    78.4        K:    7.3      NH4:  1.2
SO4:   92.1      HCO3:  121.9       Cl:    68.6      NO3:    0.1         F:  6.3
Sum Cations:  327.0  Sum Anions:   289.1  Cations/Anions: 1.13   Tot. P:  10.5
Tot. Al:    35.9    Ext. Al:    5.8     Fe:    68.0      Mn:     0.0    SiO2:  1.23

ID: 1A2-040   Name: LAKE ALGONQUIN                   State: NY  Date: 30OCT84
Sample Type: REGULAR           Latitude: 43-23'30"N   Longitude: 74-17'45"W
Elevation:  299   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   1.2
Lake Area:      85 Watershed Area:  48529 WA/LA:   570.3 Hydro Type: RESERVOIR
Residence Time:  0.00  Secchi Depth:  1.5   Turbidity:   0.7      Color:   40
Closed pH: 7.00       Equil. pH: 7.57             ANC:   250.8       DOC:  4.44
Closed DIC:  3.16   Equil. DIC:  2.67    Meas. Cond:  48.8   Cal. Cond:  49.6
Ca:  230.4          Mg:    93.6      Na:    90.9        K:   11.6      NH4:  1.7
SO4:  118.7      HCO3:  215.8       Cl:    79.5      NO3:    1.5         F:  2.0
Sum Cations:  428.2  Sum Anions:   417.8  Cations/Anions: 1.02   Tot. P:   7.1
Tot. Al:    77.1    Ext. Al:    8.7     Fe:   159.0      Mn:    12.0    SiO2:  6.89

ID: 1A2-041   Name: MUD LAKE                         State: NY  Date: 30OCT84
Sample Type: REGULAR           Latitude: 43-20'26"N   Longitude: 74-27'14"W
Elevation:  527   Surface Temp: 11.9  Stratified: MIXED      Site Depth:   3.0
Lake Area:       9 Watershed Area:    303 WA/LA:    33.3 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  1.4   Turbidity:   1.8      Color:   50
Closed pH: 6.09       Equil. pH: 6.38             ANC:    36.7       DOC:  8.25
Closed DIC:  0.55   Equil. DIC:  0.32    Meas. Cond:  21.2   Cal. Cond:  20.6
Ca:   89.4          Mg:    42.0      Na:    37.5        K:    5.5      NH4:  0.9
SO4:  104.9      HCO3:   18.1       Cl:    11.8      NO3:    0.2         F:  3.0
Sum Cations:  176.5  Sum Anions:   137.8  Cations/Anions: 1.28   Tot. P:   5.6
Tot. Al:   169.5    Ext. Al:   24.9     Fe:    26.0      Mn:    20.0    SiO2:  4.14

ID: 1A2-042   Name: NORTH BRANCH LAKE                State: NY  Date: 31OCT84
Sample Type: REGULAR           Latitude: 43-18'45"N   Longitude: 74-47'40"W
Elevation:  575   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   6.7
Lake Area:       7 Watershed Area:    176 WA/LA:    24.4 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  2.3   Turbidity:   0.6      Color:   45
Closed pH: 5.38       Equil. pH: 5.70             ANC:    13.6       DOC:  4.91
Closed DIC:  0.96   Equil. DIC:  0.18    Meas. Cond:  20.7   Cal. Cond:  20.0
Ca:   62.8          Mg:    32.2      Na:    32.8        K:    6.4      NH4:  3.8
SO4:  116.6      HCO3:    6.2       Cl:    10.2      NO3:    3.4         F:  2.0
Sum Cations:  142.0  Sum Anions:   138.4  Cations/Anions: 1.03   Tot. P:  12.9
Tot. Al:   308.8    Ext. Al:  106.1     Fe:    87.0      Mn:    34.0    SiO2:  4.12
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A2-044   Name: LONG LAKE                         State: NY  Date: 31OCT84
Sample Type: REGULAR             Latitude: 43-13'10"N    Longitude: 74-35'30"W
Elevation:  521   Surface Temp: 11.5  Stratified: MIXED     Site Depth:   7.0
Lake Area:       7 Watershed Area:     702 WA/LA:    104.8 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  2.8   Turbidity:   0.4      Color:    55
Closed pH: 5.22       Equil. pH: 5.49              ANC:     8.4        DOC:  5.80
Closed DIC:  1.30   Equil. DIC:  0.17    Meas. Cond:  20.1   Cal. Cond:  20.6
Ca:   70.1           Mg:    31.8        Na:    33.4        K:   7.1       NH4:   3.0
SO4:  112.6        HCO3:     5.8        Cl:    12.6      NO3:   0.6         F:   2.2
Sum Cations:  150.9  Sum Anions:  133.8  Cations/Anions: 1.13   Tot. P:   7.0
Tot. Al:  339.6    Ext. Al: 125.1     Fe:   178.0      Mn:    31.0     SiO2:  4.14

ID: 1A2-045   Name: WOODS LAKE                        State: NY  Date: 31OCT84
Sample Type: REGULAR             Latitude: 43-15'10"N    Longitude: 74-19'00"W
Elevation:  418   Surface Temp: 13.2  Stratified: MIXED     Site Depth:  10.0
Lake Area:      26 Watershed Area:     168 WA/LA:      6.4 Hydro Type: DRAINAGE
Residence Time:  1.29  Secchi Depth:  5.5   Turbidity:   0.3      Color:    15
Closed pH: 5.81       Equil. pH: 6.07              ANC:    13.2        DOC:  2.08
Closed DIC:  0.40   Equil. DIC:  0.21    Meas. Cond:  16.9   Cal. Cond:  18.0
Ca:   68.6           Mg:    24.7        Na:    27.8        K:   4.2       NH4:   0.8
SO4:  110.5        HCO3:    11.0        Cl:    10.4      NO3:   0.3         F:   2.1
Sum Cations:  127.6  Sum Anions:  134.3  Cations/Anions: 0.95   Tot. P:   6.1
Tot. Al:   51.5    Ext. Al:  14.8     Fe:     0.0      Mn:    40.0     SiO2:  1.90

ID: 1A2-046   Name: NINE CORNER LAKE                  State: NY  Date: 31OCT84
Sample Type: REG/SPC/NRC/        Latitude: 43-11'45"N    Longitude: 74-33'00"W
Elevation:  570   Surface Temp: 12.3  Stratified: MIXED     Site Depth:   9.1
Lake Area:      44 Watershed Area:     199 WA/LA:      4.6 Hydro Type: DRAINAGE
Residence Time:  1.58  Secchi Depth:  4.4   Turbidity:   0.3      Color:    10
Closed pH: 5.91       Equil. pH: 6.32              ANC:    18.4        DOC:  1.93
Closed DIC:  0.60   Equil. DIC:  0.25    Meas. Cond:  20.1   Cal. Cond:  21.0
Ca:   76.2           Mg:    41.4        Na:    22.1        K:   5.9       NH4:   1.1
SO4:  131.6        HCO3:    16.1        Cl:    11.1      NO3:   1.6         F:   2.0
Sum Cations:  147.7  Sum Anions:  162.3  Cations/Anions: 0.91   Tot. P:  14.9
Tot. Al:  113.0    Ext. Al:  11.2     Fe:    17.0      Mn:     9.0     SiO2:  1.87

ID: 1A2-047   Name: JACKSON SUMMIT RESERVOIR          State: NY  Date: 04NOV84
Sample Type: REGULAR             Latitude: 43-08'30"N    Longitude: 74-17'00"W
Elevation:  398   Surface Temp:  7.7  Stratified: MIXED     Site Depth:   2.1
Lake Area:      41 Watershed Area:    1163 WA/LA:     28.6 Hydro Type: RESERVOIR
Residence Time:  0.07  Secchi Depth:  1.8   Turbidity:   1.2      Color:    30
Closed pH: 6.41       Equil. pH: 6.71              ANC:    41.7        DOC:  3.21
Closed DIC:  1.03   Equil. DIC:  0.52    Meas. Cond:  23.7   Cal. Cond:  23.1
Ca:   88.7           Mg:    33.9        Na:    36.7        K:   6.9       NH4:   0.9
SO4:  132.8        HCO3:    40.9        Cl:    11.1      NO3:   0.3         F:   2.9
Sum Cations:  167.5  Sum Anions:  188.0  Cations/Anions: 0.89   Tot. P:   8.6
Tot. Al:  127.2    Ext. Al:   4.6     Fe:    56.0      Mn:    23.0     SiO2:  1.44

ID: 1A2-048   Name: (NO NAME)                         State: NY  Date: 31OCT84
Sample Type: REGULAR             Latitude: 43-07'39"N    Longitude: 74-35'20"W
Elevation:  485   Surface Temp: 11.6  Stratified: MIXED     Site Depth:   6.7
Lake Area:       5 Watershed Area:     101 WA/LA:     22.0 Hydro Type: DRAINAGE
Residence Time:  0.27  Secchi Depth:  2.1   Turbidity:   1.0      Color:    50
Closed pH: 5.02       Equil. pH: 5.10              ANC:     0.7        DOC:  5.35
Closed DIC:  1.12   Equil. DIC:  0.15    Meas. Cond:  17.5   Cal. Cond:  18.1
Ca:   48.6           Mg:    27.6        Na:    22.1        K:   9.4       NH4:   0.9
SO4:   92.5        HCO3:     3.3        Cl:    10.8      NO3:   0.1         F:   2.3
Sum Cations:  118.3  Sum Anions:  108.9  Cations/Anions: 1.09   Tot. P:  41.8
Tot. Al:  165.9    Ext. Al:  45.4     Fe:   137.0      Mn:    34.0     SiO2:  1.36
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A2-049   Name: LAKE DESOLATION                      State: NY  Date: 04NOV84
Sample Type: REGULAR               Latitude: 43-08'15"N   Longitude: 73-58'20"W
Elevation:  476   Surface Temp:  9.5  Stratified: MIXED     Site Depth:   5.5
Lake Area:      27 Watershed Area:    458 WA/LA:    17.3 Hydro Type: CLOSED
Residence Time:   *   Secchi Depth:  1.7  Turbidity:   1.5      Color:   45
Closed pH: 6.76       Equil. pH: 7.16              ANC:  133.9         DOC:  5.47
Closed DIC:  2.20   Equil. DIC:  1.49    Meas. Cond:  31.0   Cal. Cond:  57.2
Ca:  474.0           Mg:  181.8       Na:   37.1          K:  15.2        NH4:  2.8
SO4:  117.9        HCO3:  119.8       Cl:   15.3        NO3:   0.9          F:  2.5
Sum Cations:  711.1  Sum Anions:  256.5  Cations/Anions: 2.77   Tot. P:   8.9
Tot. Al:   90.3    Ext. Al:    6.2    Fe:  124.0       Mn:   63.0    SiO2:  3.00

ID: 1A2-051   Name: STREETCAR POND                       State: NY  Date: 18OCT84
Sample Type: REGULAR               Latitude: 43-40'38"N   Longitude: 73-42'02"W
Elevation:  405   Surface Temp: 13.3  Stratified: MIXED     Site Depth:   4.5
Lake Area:       5 Watershed Area:     60 WA/LA:    12.8 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  3.7  Turbidity:   0.6      Color:   25
Closed pH: 7.57       Equil. pH: 7.84              ANC:  367.5         DOC:  4.85
Closed DIC:  4.35   Equil. DIC:  3.98    Meas. Cond:  56.3   Cal. Cond:  60.1
Ca:  383.7           Mg:  107.2       Na:   41.2          K:   7.3        NH4:  1.1
SO4:  161.0        HCO3:  337.5       Cl:   10.4        NO3:   0.1          F:  2.7
Sum Cations:  540.5  Sum Anions:  512.7  Cations/Anions: 1.05   Tot. P:   7.9
Tot. Al:   72.0    Ext. Al:   11.3    Fe:    9.0       Mn:    0.0    SiO2:  3.39

ID: 1A2-052   Name: CHUB LAKE                            State: NY  Date: 31OCT84
Sample Type: REGULAR               Latitude: 43-15'30"N   Longitude: 74-31'50"W
Elevation:  504   Surface Temp: 11.7  Stratified: MIXED     Site Depth:   6.1
Lake Area:       7 Watershed Area:     54 WA/LA:     7.8 Hydro Type: DRAINAGE
Residence Time:  0.65  Secchi Depth:  3.6  Turbidity:   0.6      Color:   40
Closed pH: 5.21       Equil. pH: 5.43              ANC:    8.6         DOC:  4.73
Closed DIC:  1.11   Equil. DIC:  0.18    Meas. Cond:  20.9   Cal. Cond:  21.5
Ca:   69.1           Mg:   33.5       Na:   38.1          K:   8.0        NH4:  3.3
SO4:  112.9        HCO3:    4.9       Cl:   18.6        NO3:   2.0          F:  2.2
Sum Cations:  157.5  Sum Anions:  140.7  Cations/Anions: 1.12   Tot. P:   9.6
Tot. Al:  318.8    Ext. Al: 119.7     Fe:  112.0       Mn:   33.0    SiO2:  3.28

ID: 1A2-053   Name: HAMILTON LAKE                        State: NY  Date: 30OCT84
Sample Type: REGULAR               Latitude: 43-25'50"N   Longitude: 74-23'18"W
Elevation:  565   Surface Temp: 12.5  Stratified: MIXED     Site Depth:   7.0
Lake Area:      56 Watershed Area:   1386 WA/LA:    24.7 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  5.3  Turbidity:   0.4      Color:   10
Closed pH: 6.47       Equil. pH: 7.10              ANC:   66.0         DOC:  3.34
Closed DIC:  1.12   Equil. DIC:  0.77    Meas. Cond:  23.4   Cal. Cond:  24.7
Ca:  106.9           Mg:   46.7       Na:   28.5          K:   6.4        NH4:  4.3
SO4:  121.4        HCO3:   52.3       Cl:   12.2        NO3:   5.9          F:  2.3
Sum Cations:  193.1  Sum Anions:  194.1  Cations/Anions: 0.99   Tot. P:   6.1
Tot. Al:  105.4    Ext. Al:   10.7    Fe:   98.0       Mn:   29.0    SiO2:  3.91

ID: 1A2-054   Name: TROUT LAKE                           State: NY  Date: 31OCT84
Sample Type: REG/SPC/NRC/          Latitude: 43-20'48"N   Longitude: 74-42'50"W
Elevation:  651   Surface Temp: 11.1  Stratified: MIXED     Site Depth:   4.3
Lake Area:      17 Watershed Area:    249 WA/LA:    14.8 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  2.3  Turbidity:   0.7      Color:   30
Closed pH: 4.86       Equil. pH: 4.89              ANC:   -5.6         DOC:  4.92
Closed DIC:  0.63   Equil. DIC:  0.14    Meas. Cond:  20.3   Cal. Cond:  19.1
Ca:   48.7           Mg:   20.4       Na:   19.1          K:   6.3        NH4:  0.7
SO4:   98.5        HCO3:    1.7       Cl:    6.3        NO3:   0.9          F:  1.4
Sum Cations:  109.6  Sum Anions:  108.8  Cations/Anions: 1.01   Tot. P:   5.1
Tot. Al:  379.7    Ext. Al: 124.4     Fe:   54.0       Mn:   26.0    SiO2:  1.24
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A2-056   Name: HUCKLEBERRY LAKE                 State: NY  Date: 24OCT84
Sample Type: REGULAR            Latitude: 43-47'47"N    Longitude: 75-15'00"W
Elevation:  399   Surface Temp: 11.7  Stratified: MIXED     Site Depth:   6.7
Lake Area:      14 Watershed Area:      85 WA/LA:      6.3 Hydro Type: DRAINAGE
Residence Time:  0.63  Secchi Depth:  1.8  Turbidity:   0.7      Color:   50
Closed pH: 5.63       Equil. pH: 6.45             ANC:   28.1         DOC:  5.65
Closed DIC:  1.63  Equil. DIC:  0.29    Meas. Cond:  11.4   Cal. Cond:  11.3
Ca:   50.8         Mg:   18.8       Na:    17.0        K:   8.2       NH4:   0.9
SO4:   42.5       HCO3:   26.8       Cl:     8.1       NO3:   0.0         F:   2.4
Sum Cations:   96.8  Sum Anions:    79.8  Cations/Anions: 1.21   Tot. P:   9.8
Tot. Al:   42.9    Ext. Al:  13.8     Fe:  222.0      Mn:    27.0    SiO2:  0.15

ID: 1A2-057   Name: TWIN PONDS (NORTHWESTERN)        State: NY  Date: 11OCT84
Sample Type: REGULAR            Latitude: 44-42'24"N    Longitude: 74-20'33"W
Elevation:  440   Surface Temp: 11.3  Stratified: MIXED     Site Depth:   4.6
Lake Area:      17 Watershed Area:     293 WA/LA:     17.6 Hydro Type: DRAINAGE
Residence Time:  0.23  Secchi Depth:  1.8  Turbidity:   0.5      Color:   60
Closed pH: 6.66       Equil. pH: 7.74             ANC:  334.5         DOC:  6.98
Closed DIC:  5.43  Equil. DIC:  3.68    Meas. Cond:  47.3   Cal. Cond:  49.3
Ca:  279.5         Mg:  134.1       Na:    42.6        K:  14.1       NH4:   6.9
SO4:   84.0       HCO3:  296.6       Cl:    22.3       NO3:   0.4         F:   3.2
Sum Cations:  477.2  Sum Anions:   407.1  Cations/Anions: 1.17   Tot. P:  21.2
Tot. Al:   59.4    Ext. Al:  11.0     Fe:  295.0      Mn:    44.0    SiO2:  4.51

ID: 1A2-058   Name: TROUT LAKE                       State: NY  Date: 24OCT84
Sample Type: REGULAR            Latitude: 44-21'47"N    Longitude: 75-16'08"W
Elevation:  227   Surface Temp: 12.8  Stratified: MIXED     Site Depth:  10.7
Lake Area:     146 Watershed Area:     609 WA/LA:      4.2 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  4.9  Turbidity:   0.3      Color:   15
Closed pH: 7.31       Equil. pH: 7.83             ANC:  395.7         DOC:  3.77
Closed DIC:  4.75  Equil. DIC:  4.35    Meas. Cond:  59.0   Cal. Cond:  61.9
Ca:  335.8         Mg:  181.8       Na:    32.8        K:   9.7       NH4:   1.1
SO4:  155.2       HCO3:  342.9       Cl:    25.4       NO3:   0.2         F:   2.2
Sum Cations:  561.3  Sum Anions:   527.4  Cations/Anions: 1.06   Tot. P:   6.6
Tot. Al:   33.4    Ext. Al:   7.5     Fe:   28.5      Mn:     6.0    SiO2:  0.87

ID: 1A2-059   Name: CRANE POND                       State: NY  Date: 18OCT84
Sample Type: REGULAR            Latitude: 43-51'10"N    Longitude: 73-39'10"W
Elevation:  329   Surface Temp: 13.7  Stratified: MIXED     Site Depth:   8.2
Lake Area:      67 Watershed Area:    2077 WA/LA:     31.2 Hydro Type: DRAINAGE
Residence Time:  0.31  Secchi Depth:  6.9  Turbidity:   0.2      Color:   15
Closed pH: 7.03       Equil. pH: 7.26             ANC:  112.1         DOC:  2.93
Closed DIC:  1.59  Equil. DIC:  1.29    Meas. Cond:  31.1   Cal. Cond:  33.5
Ca:  189.7         Mg:   57.3       Na:    28.9        K:   7.0       NH4:   1.2
SO4:  144.7       HCO3:  102.3       Cl:    10.1       NO3:   0.3         F:   2.9
Sum Cations:  284.2  Sum Anions:   260.4  Cations/Anions: 1.09   Tot. P:   2.8
Tot. Al:   15.2    Ext. Al:   0.0     Fe:    1.0      Mn:     0.0    SiO2:  2.33

ID: 1A2-061   Name: WHITE LAKE                       State: NY  Date: 16OCT84
Sample Type: REGULAR            Latitude: 43-32'42"N    Longitude: 75-09'02"W
Elevation:  433   Surface Temp: 14.1  Stratified: STRONG    Site Depth:  22.8
Lake Area:      89 Watershed Area:     332 WA/LA:      3.7 Hydro Type: DRAINAGE
Residence Time:  3.58  Secchi Depth:  9.4  Turbidity:   0.1      Color:   10
Closed pH: 7.11       Equil. pH: 7.43             ANC:  176.2         DOC:  2.20
Closed DIC:  2.12  Equil. DIC:  2.03    Meas. Cond:  68.5   Cal. Cond:  66.6
Ca:  275.1         Mg:   56.4       Na:   257.9        K:  16.5       NH4:   1.8
SO4:  134.1       HCO3:  161.0       Cl:   190.8       NO3:   2.9         F:   5.8
Sum Cations:  607.8  Sum Anions:   494.9  Cations/Anions: 1.23   Tot. P:   0.0
Tot. Al:   12.5    Ext. Al:   3.0     Fe:    0.0      Mn:     0.0    SiO2:  1.12
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A2-063   Name: LONG LAKE                         State: NY  Date: 24OCT84
Sample Type: REGULAR             Latitude: 44-09'48"N    Longitude: 75-12'06"W
Elevation:  363   Surface Temp: 12.7  Stratified: MIXED      Site Depth:   5.8
Lake Area:        9 Watershed Area:     124 WA/LA:     13.5 Hydro Type: DRAINAGE
Residence Time:  0.30  Secchi Depth:  2.0   Turbidity:   1.1      Color:   35
Closed pH: 6.07        Equil. pH: 6.69               ANC:   45.9         DOC:  5.42
Closed DIC:  1.15   Equil. DIC:  0.42    Meas. Cond:  21.9   Cal. Cond:  23.0
Ca:  126.0           Mg:   38.1       Na:    23.1          K:   3.4       NH4:  0.9
SO4:  116.3        HCO3:   39.0       Cl:    6.0         NO3:   0.2         F:  6.4
Sum Cations:  192.0  Sum Anions:  167.9  Cations/Anions: 1.14   Tot. P:  10.4
Tot. Al:    98.6    Ext. Al:  22.7     Fe:    47.0       Mn:    6.0    SiO2:  0.56

ID: 1A2-064   Name: LITTLE POND                       State: NY  Date: 08OCT84
Sample Type: REGULAR             Latitude: 44-11'00"N    Longitude: 73-34'35"W
Elevation:  328   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   5.5
Lake Area:       11 Watershed Area:     166 WA/LA:     14.9 Hydro Type: DRAINAGE
Residence Time:  0.41  Secchi Depth:  4.8   Turbidity:   0.3      Color:   15
Closed pH: 7.17        Equil. pH: 7.97               ANC:  522.2         DOC:  4.24
Closed DIC:  6.28   Equil. DIC:  5.88    Meas. Cond: 236.7   Cal. Cond: 231.2
Ca:  703.6           Mg:  312.6       Na:   918.5          K:   9.1       NH4:  1.2
SO4:  156.6        HCO3:  475.2       Cl: 1206.7         NO3:   0.1         F:  1.1
Sum Cations: 1945.0  Sum Anions: 1842.2  Cations/Anions: 1.06   Tot. P:   1.8
Tot. Al:    32.0    Ext. Al:   0.0     Fe:     9.5       Mn:   27.5    SiO2:  2.72

ID: 1A2-065   Name: BELFORT POND                      State: NY  Date: 21OCT84
Sample Type: REGULAR             Latitude: 43-55'39"N    Longitude: 75-19'42"W
Elevation:  294   Surface Temp: 12.8  Stratified: MIXED      Site Depth:   1.8
Lake Area:       16 Watershed Area:   19000 WA/LA:   1210.2 Hydro Type: RESERVOIR
Residence Time:  0.00  Secchi Depth:  2.0   Turbidity:   0.8      Color:   35
Closed pH: 6.15        Equil. pH: 6.57               ANC:   36.2         DOC:  3.94
Closed DIC:  0.80   Equil. DIC:  0.40    Meas. Cond:  21.4   Cal. Cond:  22.6
Ca:  104.2           Mg:   34.5       Na:    32.9          K:  10.0       NH4:  1.5
SO4:  116.5        HCO3:   21.1       Cl:     9.6        NO3:   8.8         F:  4.8
Sum Cations:  183.7  Sum Anions:  160.7  Cations/Anions: 1.14   Tot. P:   5.2
Tot. Al:   138.5    Ext. Al:  31.2     Fe:   185.0       Mn:   18.0    SiO2:  3.45

ID: 1A3-001   Name: NATE POND                         State: NY  Date: 15OCT84
Sample Type: REGULAR             Latitude: 43-51'30"N    Longitude: 74-05'30"W
Elevation:  614   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   6.7
Lake Area:        9 Watershed Area:     109 WA/LA:     12.8 Hydro Type: DRAINAGE
Residence Time:  0.45  Secchi Depth:  4.1   Turbidity:   0.4      Color:   20
Closed pH: 6.84        Equil. pH: 7.07               ANC:   85.0         DOC:  4.32
Closed DIC:  1.08   Equil. DIC:  0.90    Meas. Cond:  30.4   Cal. Cond:  29.3
Ca:  139.6           Mg:   57.3       Na:    39.4          K:  10.1       NH4:  1.7
SO4:  135.0        HCO3:   74.3       Cl:     8.6        NO3:   0.6         F:  4.0
Sum Cations:  248.3  Sum Anions:  222.6  Cations/Anions: 1.12   Tot. P:   1.6
Tot. Al:    95.6    Ext. Al:  11.4     Fe:    18.0       Mn:    5.0    SiO2:  3.61

ID: 1A3-007   Name: KEENAN POND                       State: NY  Date: 08OCT84
Sample Type: REGULAR             Latitude: 44-26'00"N    Longitude: 73-28'15"W
Elevation:  253   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   2.1
Lake Area:        9 Watershed Area:     264 WA/LA:     29.3 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  2.3   Turbidity:   1.1      Color:   30
Closed pH: 7.74        Equil. pH: 7.88               ANC:  460.2         DOC:  7.68
Closed DIC:  5.41   Equil. DIC:  5.04    Meas. Cond:  77.1   Cal. Cond:  83.9
Ca:  499.0           Mg:  174.4       Na:   100.9          K:   2.6       NH4:  1.8
SO4:  143.9        HCO3:  424.8       Cl:   116.7        NO3:   1.8         F:  1.3
Sum Cations:  778.8  Sum Anions:  690.1  Cations/Anions: 1.13   Tot. P:   8.7
Tot. Al:    61.0    Ext. Al:   0.0     Fe:    11.0       Mn:   12.0    SiO2:  1.12
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A3-008   Name: BUTTERFIELD LAKE                State: NY  Date: 17OCT84
Sample Type: REGULAR           Latitude: 44-19'00"N    Longitude: 75-46'45"W
Elevation:   85   Surface Temp: 14.2  Stratified: MIXED      Site Depth:  13.1
Lake Area:     390 Watershed Area:    3559 WA/LA:      9.1 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  2.4  Turbidity:   3.0      Color:   10
Closed pH: 8.28        Equil. pH: 8.13              ANC:  879.1         DOC:  3.93
Closed DIC:  9.47   Equil. DIC:  9.28    Meas. Cond: 121.1   Cal. Cond: 129.0
Ca:  768.7         Mg:  230.7        Na:   154.2         K:  25.7       NH4:   1.1
SO4:  180.7      HCO3:  788.9       Cl:   146.1       NO3:   0.0          F:  3.6
Sum Cations: 1180.5  Sum Anions: 1125.1  Cations/Anions: 1.05   Tot. P:  12.8
Tot. Al:   35.4   Ext. Al:    7.6    Fe:    20.0     Mn:     12.0    SiO2:  2.76

ID: 1A3-009   Name: CRYSTAL LAKE                    State: NY  Date: 17OCT84
Sample Type: REGULAR           Latitude: 44-16'30"N    Longitude: 75-48'00"W
Elevation:  114   Surface Temp: 13.7  Stratified: MIXED      Site Depth:  11.9
Lake Area:      36 Watershed Area:     329 WA/LA:      9.2 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  2.6  Turbidity:   2.4      Color:   15
Closed pH: 7.94        Equil. pH: 8.08              ANC:  831.3         DOC:  3.40
Closed DIC:  9.57   Equil. DIC:  9.07    Meas. Cond: 135.9   Cal. Cond: 147.8
Ca:  886.5         Mg:  191.3        Na:   193.1         K:  39.1       NH4:   1.6
SO4:  274.4      HCO3:  781.3       Cl:   198.0       NO3:   0.2          F:  3.1
Sum Cations: 1311.6  Sum Anions: 1260.5  Cations/Anions: 1.04   Tot. P:  10.6
Tot. Al:   46.1   Ext. Al:    8.3    Fe:    25.0     Mn:     18.0    SiO2:  1.14

ID: 1A3-010   Name: BIG POND                        State: NY  Date: 08OCT84
Sample Type: REGULAR           Latitude: 44-17'15"N    Longitude: 73-33'20"W
Elevation:  188   Surface Temp:  7.8  Stratified: MIXED      Site Depth:   0.9
Lake Area:      19 Watershed Area:     995 WA/LA:     52.9 Hydro Type: DRAINAGE
Residence Time:  0.02   Secchi Depth:  1.3  Turbidity:   0.6      Color:   60
Closed pH: 6.41        Equil. pH: 8.01              ANC:  636.5         DOC:  9.61
Closed DIC: 12.79   Equil. DIC:  7.06    Meas. Cond:  81.4   Cal. Cond:  93.8
Ca:  711.1         Mg:  181.8        Na:    50.5         K:   1.7       NH4:   1.4
SO4:   91.7      HCO3:  605.6       Cl:    61.2       NO3:   0.3          F:  1.7
Sum Cations:  946.5  Sum Anions:  761.5  Cations/Anions: 1.24   Tot. P:   0.8
Tot. Al:   27.6   Ext. Al:    0.0    Fe:   165.0     Mn:     28.0    SiO2:  8.45

ID: 1A3-011   Name: INDIAN LAKE                     State: NY  Date: 17OCT84
Sample Type: REGULAR           Latitude: 44-08'30"N    Longitude: 75-27'10"W
Elevation:  225   Surface Temp: 14.3  Stratified: MIXED      Site Depth:   9.2
Lake Area:      71 Watershed Area:   13919 WA/LA:    196.3 Hydro Type: DRAINAGE
Residence Time:  0.03   Secchi Depth:  2.6  Turbidity:   1.1      Color:   55
Closed pH: 7.72        Equil. pH: 8.02              ANC:  830.8         DOC:  7.74
Closed DIC:  9.66   Equil. DIC:  8.88    Meas. Cond: 105.8   Cal. Cond: 115.7
Ca:  749.2         Mg:  304.8        Na:    74.1         K:  11.7       NH4:   1.2
SO4:  131.9      HCO3:  755.1       Cl:    72.2       NO3:   0.3          F:  4.4
Sum Cations: 1141.1  Sum Anions:  968.9  Cations/Anions: 1.18   Tot. P:   1.4
Tot. Al:  135.4   Ext. Al:    7.2    Fe:   124.0     Mn:     26.0    SiO2:  3.72

ID: 1A3-013   Name: RUTLAND LAKE                    State: NY  Date: 17OCT84
Sample Type: REGULAR           Latitude: 43-57'05"N    Longitude: 75-47'45"W
Elevation:  298   Surface Temp: 13.2  Stratified: MIXED      Site Depth:  10.4
Lake Area:       6 Watershed Area:     914 WA/LA:    145.1 Hydro Type: DRAINAGE
Residence Time:  0.05   Secchi Depth:  7.0  Turbidity:   0.2      Color:   25
Closed pH: 7.83        Equil. pH: 8.46              ANC: 3226.8         DOC:  3.42
Closed DIC: 36.44   Equil. DIC: 37.15    Meas. Cond: 319.9   Cal. Cond: 377.5
Ca: 3028.4         Mg:  252.1        Na:   168.1         K:  33.3       NH4:   3.8
SO4:  136.8      HCO3: 3148.7       Cl:   247.0       NO3:   0.6          F:  2.4
Sum Cations: 3485.8  Sum Anions: 3576.1  Cations/Anions: 0.97   Tot. P:   0.3
Tot. Al:   20.9   Ext. Al:    5.6    Fe:     7.0     Mn:      1.0    SiO2:  7.03
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A3-017   Name: SMITH POND                         State: NY  Date: 18OCT84
Sample Type: REGULAR            Latitude: 43-42'35"N    Longitude: 73-48'00"W
Elevation:  246   Surface Temp: 14.0  Stratified: WEAK       Site Depth:  10.1
Lake Area:      15 Watershed Area:     161 WA/LA:     10.6 Hydro Type: DRAINAGE
Residence Time:  0.81  Secchi Depth:  5.6   Turbidity:   0.2       Color:   20
Closed pH: 7.23        Equil. pH: 7.58             ANC:  212.9          DOC:  3.84
Closed DIC:  2.68   Equil. DIC:  2.37    Meas. Cond:  52.3   Cal. Cond:  57.8
Ca:  303.5         Mg:   74.9        Na:  105.6         K:   6.2        NH4:  0.9
SO4:  162.3       HCO3:  191.1        Cl:  108.0        NO3:   0.1          F:  2.8
Sum Cations:  491.2  Sum Anions:  464.6  Cations/Anions: 1.06   Tot. P:   2.3
Tot. Al:   53.2    Ext. Al:   0.9    Fe:    2.0      Mn:    2.0     SiO2:  0.39

ID: 1A3-018   Name: SULLIVAN POND                      State: NY  Date: 03NOV84
Sample Type: REGULAR            Latitude: 43-38'00"N    Longitude: 73-49'10"W
Elevation:  329   Surface Temp:  9.6  Stratified: MIXED      Site Depth:   3.1
Lake Area:      17 Watershed Area:      96 WA/LA:      5.8 Hydro Type: DRAINAGE
Residence Time:  0.43  Secchi Depth:  0.5   Turbidity:   0.9       Color:   75
Closed pH: 6.69        Equil. pH: 7.60             ANC:  276.9          DOC:  9.12
Closed DIC:  4.19   Equil. DIC:  2.72    Meas. Cond:  36.5   Cal. Cond:  36.0
Ca:  236.1         Mg:   68.8        Na:   57.8         K:   3.9        NH4:  3.5
SO4:   54.0       HCO3:  215.4        Cl:   10.1        NO3:   0.1          F:  3.0
Sum Cations:  370.2  Sum Anions:  282.8  Cations/Anions: 1.31   Tot. P:  12.2
Tot. Al:   61.7    Ext. Al:   4.9    Fe:   84.0      Mn:    9.0     SiO2:  7.05

ID: 1A3-019   Name: (NO NAME)                          State: NY  Date: 17OCT84
Sample Type: REGULAR            Latitude: 43-34'15"N    Longitude: 76-12'00"W
Elevation:   75   Surface Temp: 14.7  Stratified: MIXED      Site Depth:   0.7
Lake Area:      19 Watershed Area:   69925 WA/LA:   3661.0 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  0.7   Turbidity:   2.4       Color:   45
Closed pH: 7.35        Equil. pH: 7.84             ANC:  457.3          DOC:  4.69
Closed DIC:  5.59   Equil. DIC:  4.48    Meas. Cond:  64.4   Cal. Cond:  65.4
Ca:  377.7         Mg:  161.6        Na:   46.2         K:  11.6        NH4:  2.8
SO4:  116.4       HCO3:  424.5        Cl:   31.0        NO3:   3.3          F:  1.7
Sum Cations:  599.9  Sum Anions:  577.9  Cations/Anions: 1.04   Tot. P:  26.6
Tot. Al:   86.3    Ext. Al:   9.5    Fe:  120.0      Mn:   31.0     SiO2:  1.78

ID: 1A3-020   Name: TROUT LAKE                         State: NY  Date: 03NOV84
Sample Type: REGULAR            Latitude: 43-32'30"N    Longitude: 73-42'15"W
Elevation:  240   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   3.1
Lake Area:     103 Watershed Area:    1140 WA/LA:     11.1 Hydro Type: DRAINAGE
Residence Time:  0.30  Secchi Depth:  2.1   Turbidity:   0.5       Color:   20
Closed pH: 7.19        Equil. pH: 7.71             ANC:  347.3          DOC:  3.43
Closed DIC:  4.29   Equil. DIC:  3.66    Meas. Cond:  57.6   Cal. Cond:  57.9
Ca:  321.6         Mg:   92.8        Na:   90.3         K:  10.3        NH4:  1.7
SO4:  125.9       HCO3:  282.3        Cl:   72.9        NO3:   0.0          F:  3.8
Sum Cations:  516.6  Sum Anions:  485.3  Cations/Anions: 1.06   Tot. P:   8.2
Tot. Al:   20.5    Ext. Al:   1.5    Fe:   36.0      Mn:   34.0     SiO2:  3.38

ID: 1A3-021   Name: LOWER RESERVOIR                    State: NY  Date: 17OCT84
Sample Type: REGULAR            Latitude: 43-31'30"N    Longitude: 75-57'30"W
Elevation:  198   Surface Temp: 13.4  Stratified: MIXED      Site Depth:   8.5
Lake Area:      61 Watershed Area:   53458 WA/LA:    882.1 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  2.4   Turbidity:   1.1       Color:   40
Closed pH: 7.25        Equil. pH: 7.86             ANC:  399.0          DOC:  4.95
Closed DIC:  4.84   Equil. DIC:  4.28    Meas. Cond:  59.1   Cal. Cond:  59.1
Ca:  351.5         Mg:  165.8        Na:   25.4         K:   8.7        NH4:  1.3
SO4:  115.9       HCO3:  368.1        Cl:   13.5        NO3:   7.9          F:  1.6
Sum Cations:  552.7  Sum Anions:  508.3  Cations/Anions: 1.09   Tot. P:   0.0
Tot. Al:   70.8    Ext. Al:   8.5    Fe:   27.0      Mn:    1.0     SiO2:  2.27
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A3-022   Name: CROSSETT POND                    State: NY  Date: 03NOV84
Sample Type: REGULAR            Latitude: 43-30'00"N    Longitude: 73-35'00"W
Elevation:  446   Surface Temp: 10.3  Stratified: WEAK       Site Depth:  15.9
Lake Area:      45 Watershed Area:     155 WA/LA:      3.4 Hydro Type: DRAINAGE
Residence Time:  4.08  Secchi Depth:  5.5   Turbidity:   0.5      Color:   15
Closed pH: 6.94        Equil. pH: 7.53             ANC:  212.6         DOC:  3.79
Closed DIC:  2.84   Equil. DIC:  2.32    Meas. Cond:  39.5   Cal. Cond:  41.4
Ca:  240.7           Mg:    66.6       Na:    25.5         K:  11.5       NH4:  1.2
SO4:  138.3       HCO3:  197.9       Cl:    16.8        NO3:   0.3          F:  2.6
Sum Cations:  345.7  Sum Anions:  356.3  Cations/Anions: 0.97   Tot. P:   3.8
Tot. Al:   20.9    Ext. Al:   11.3    Fe:    20.0      Mn:    20.0    SiO2:  0.90

ID: 1A3-023   Name: LAKE LORAINE                     State: NY  Date: 17OCT84
Sample Type: REGULAR            Latitude: 43-27'30"N    Longitude: 75-57'40"W
Elevation:  198   Surface Temp: 14.7  Stratified: MIXED      Site Depth:   6.7
Lake Area:       7 Watershed Area:      98 WA/LA:     14.6 Hydro Type: DRAINAGE
Residence Time:  0.28  Secchi Depth:  1.3   Turbidity:   1.6      Color:   70
Closed pH: 6.89        Equil. pH: 7.94             ANC:  505.1         DOC:  8.83
Closed DIC:  7.31   Equil. DIC:  5.38    Meas. Cond:  80.1   Cal. Cond:  81.9
Ca:  395.7           Mg:   269.8       Na:   127.4         K:  12.3       NH4:  0.9
SO4:  156.9       HCO3:  461.7       Cl:    44.9        NO3:   0.1          F:  1.9
Sum Cations:  806.2  Sum Anions:  666.4  Cations/Anions: 1.21   Tot. P:   6.5
Tot. Al:   21.6    Ext. Al:    7.4    Fe:   157.0      Mn:   164.0    SiO2:  5.42

ID: 1A3-025   Name: HADLOCK POND                     State: NY  Date: 03NOV84
Sample Type: REGULAR            Latitude: 43-25'30"N    Longitude: 73-34'15"W
Elevation:  138   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   5.9
Lake Area:      78 Watershed Area:    2277 WA/LA:     29.1 Hydro Type: RESERVOIR
Residence Time:  0.24  Secchi Depth:  4.4   Turbidity:   1.5      Color:   15
Closed pH: 7.53        Equil. pH: 7.97             ANC:  581.0         DOC:  2.88
Closed DIC:  6.57   Equil. DIC:  6.14    Meas. Cond:  80.8   Cal. Cond:  85.6
Ca:  505.0           Mg:   196.6       Na:    58.5         K:  11.6       NH4:  1.7
SO4:  187.4       HCO3:  525.9       Cl:    33.4        NO3:   0.0          F:  2.8
Sum Cations:  773.4  Sum Anions:  751.0  Cations/Anions: 1.03   Tot. P:   5.5
Tot. Al:   25.3    Ext. Al:    1.8    Fe:    16.0      Mn:    25.0    SiO2:  3.56

ID: 1A3-026   Name: COAN POND                        State: NY  Date: 17OCT84
Sample Type: REGULAR            Latitude: 43-24'20"N    Longitude: 75-58'30"W
Elevation:  187   Surface Temp: 15.4  Stratified: MIXED      Site Depth:   6.7
Lake Area:      23 Watershed Area:     161 WA/LA:      7.1 Hydro Type: DRAINAGE
Residence Time:  0.57  Secchi Depth:  2.9   Turbidity:   0.3      Color:   40
Closed pH: 7.25        Equil. pH: 7.90             ANC:  465.4         DOC:  6.34
Closed DIC:  5.80   Equil. DIC:  5.02    Meas. Cond:  66.4   Cal. Cond:  68.5
Ca:  320.9           Mg:   252.5       Na:    56.6         K:   6.0       NH4:  0.4
SO4:  126.0       HCO3:  427.1       Cl:    44.3        NO3:   0.3          F:  1.8
Sum Cations:  636.4  Sum Anions:  600.9  Cations/Anions: 1.06   Tot. P:   2.3
Tot. Al:  123.5    Ext. Al:    7.4    Fe:    30.0      Mn:     0.0    SiO2:  0.34

ID: 1A3-027   Name: BUTLER POND                      State: NY  Date: 03NOV84
Sample Type: REGULAR            Latitude: 43-22'15"N    Longitude: 73-44'15"W
Elevation:  316   Surface Temp:  9.3  Stratified: MIXED      Site Depth:   1.5
Lake Area:      35 Watershed Area:     277 WA/LA:      8.0 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  1.9   Turbidity:   1.1      Color:   20
Closed pH: 6.87        Equil. pH: 7.09             ANC:   91.8         DOC:  3.66
Closed DIC:  1.17   Equil. DIC:  0.97    Meas. Cond:  29.7   Cal. Cond:  29.9
Ca:  142.2           Mg:    56.3       Na:    36.4         K:   4.9       NH4:  0.7
SO4:  141.8       HCO3:   79.4       Cl:    14.4        NO3:   0.0          F:  4.2
Sum Cations:  240.6  Sum Anions:  239.8  Cations/Anions: 1.00   Tot. P:  10.8
Tot. Al:   55.6    Ext. Al:    3.9    Fe:    33.0      Mn:     5.0    SiO2:  0.80
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A3-028  Name: CURTIS LAKE                    State: NY  Date: 31OCT84
Sample Type: REGULAR          Latitude: 43-20'10"N   Longitude: 74-57'40"W
Elevation:  426   Surface Temp: 12.3  Stratified: MIXED     Site Depth:   7.0
Lake Area:      4 Watershed Area:      36 WA/LA:     9.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.6   Turbidity:   0.7      Color:   25
Closed pH: 5.11       Equil. pH: 5.23             ANC:    1.6        DOC: 3.01
Closed DIC:  0.72   Equil. DIC:  0.14   Meas. Cond:  11.2   Cal. Cond:  11.5
Ca:   38.0        Mg:    12.5      Na:    3.9        K:   6.5       NH4:  0.8
SO4:   56.0     HCO3:     3.6      Cl:    6.4      NO3:   0.3         F:  0.8
Sum Cations:   69.4  Sum Anions:   67.2  Cations/Anions: 1.03   Tot. P:  11.8
Tot. Al:   38.6    Ext. Al:   9.4    Fe:    49.0      Mn:   35.0    SiO2: 0.28
```

```
ID: 1A3-029  Name: KEENAN RESERVOIR               State: NY  Date: 03NOV84
Sample Type: REGULAR          Latitude: 43-19'45"N   Longitude: 73-45'30"W
Elevation:  362   Surface Temp: 10.6  Stratified: MIXED     Site Depth:   4.6
Lake Area:     19 Watershed Area:     287 WA/LA:    15.1 Hydro Type: RESERVOIR
Residence Time:  0.34  Secchi Depth:  3.5   Turbidity:   0.6      Color:   25
Closed pH: 6.48       Equil. pH: 7.01             ANC:   62.8        DOC: 3.22
Closed DIC:  0.94   Equil. DIC:  0.73   Meas. Cond:  25.4   Cal. Cond:  25.6
Ca:  119.3        Mg:    37.5      Na:   37.8        K:   7.8       NH4:  0.8
SO4:  130.2     HCO3:    49.8      Cl:   13.0      NO3:   0.1         F:  4.1
Sum Cations:  203.6  Sum Anions:  197.1  Cations/Anions: 1.03   Tot. P:   6.7
Tot. Al:   44.9    Ext. Al:   4.4    Fe:    26.0      Mn:    3.0    SiO2: 1.75
```

```
ID: 1A3-030  Name: DELTA RESERVOIR                State: NY  Date: 17OCT84
Sample Type: REGULAR          Latitude: 43-17'30"N   Longitude: 75-26'15"W
Elevation:  167   Surface Temp: 14.1  Stratified: MIXED     Site Depth:   7.0
Lake Area:    958 Watershed Area:   37239 WA/LA:    38.9 Hydro Type: RESERVOIR
Residence Time:  0.11  Secchi Depth:  1.3   Turbidity:   5.5      Color:   20
Closed pH: 7.90       Equil. pH: 8.40             ANC: 1515.8        DOC: 2.47
Closed DIC: 17.44   Equil. DIC: 16.39   Meas. Cond: 183.3   Cal. Cond: 194.1
Ca: 1342.8        Mg:   288.7      Na:  116.8        K:  21.6       NH4:  5.1
SO4:  258.3     HCO3:  1356.3      Cl:  104.6      NO3:   9.7         F:  2.6
Sum Cations: 1775.0  Sum Anions: 1754.3  Cations/Anions: 1.01   Tot. P:  20.2
Tot. Al:  242.5    Ext. Al:   9.2    Fe:    26.0      Mn:   29.0    SiO2: 2.49
```

```
ID: 1A3-031  Name: MOREAU LAKE                    State: NY  Date: 03NOV84
Sample Type: REGULAR          Latitude: 43-14'00"N   Longitude: 73-42'45"W
Elevation:  101   Surface Temp: 12.7  Stratified: MIXED     Site Depth:  13.7
Lake Area:     28 Watershed Area:     231 WA/LA:     8.1 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  6.8   Turbidity:   0.3      Color:   10
Closed pH: 7.45       Equil. pH: 8.00             ANC:  630.7        DOC: 3.00
Closed DIC:  7.36   Equil. DIC:  6.69   Meas. Cond:  95.7   Cal. Cond: 100.3
Ca:  611.3        Mg:   175.2      Na:  114.0        K:  11.6       NH4:  3.0
SO4:  226.3     HCO3:   510.1      Cl:   89.0      NO3:   0.1         F:  2.3
Sum Cations:  915.1  Sum Anions:  829.6  Cations/Anions: 1.10   Tot. P:   7.8
Tot. Al:   60.5    Ext. Al:   7.2    Fe:    12.0      Mn:    4.0    SiO2: 1.02
```

```
ID: 1A3-032  Name: PORT RESERVOIR                 State: NY  Date: 04NOV84
Sample Type: REGULAR          Latitude: 43-05'15"N   Longitude: 74-21'30"W
Elevation:  352   Surface Temp:  9.8  Stratified: MIXED     Site Depth:   4.6
Lake Area:      7 Watershed Area:     184 WA/LA:    27.5 Hydro Type: RESERVOIR
Residence Time:  0.15  Secchi Depth:  1.7   Turbidity:   2.4      Color:   40
Closed pH: 7.15       Equil. pH: 7.82             ANC:  447.1        DOC: 5.16
Closed DIC:  6.03   Equil. DIC:  4.84   Meas. Cond:  56.2   Cal. Cond:  63.1
Ca:  371.8        Mg:   107.8      Na:   54.0        K:   7.3       NH4:  0.9
SO4:  148.9     HCO3:   415.7      Cl:   17.5      NO3:   0.0         F:  3.3
Sum Cations:  541.9  Sum Anions:  586.3  Cations/Anions: 0.92   Tot. P:  10.1
Tot. Al:   29.6    Ext. Al:   1.9    Fe:   123.0      Mn:    6.0    SiO2: 5.01
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A3-037   Name: BALLSTON LAKE (NORTH END)        State: NY  Date: 04NOV84
Sample Type: REGULAR             Latitude: 42-57'00"N   Longitude: 73-51'10"W
Elevation:   77   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   4.9
Lake Area:     104 Watershed Area:   2764 WA/LA:    26.5 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  1.7   Turbidity:   2.4     Color:   35
Closed pH: 7.96        Equil. pH: 8.36             ANC: 1481.1        DOC:  6.03
Closed DIC: 17.75   Equil. DIC: 16.36    Meas. Cond: 254.4   Cal. Cond: 270.9
Ca: 1260.5           Mg:  553.6        Na:  570.7         K:  37.6      NH4:   1.2
SO4:  355.7        HCO3: 1338.9       Cl:  608.0        NO3:   0.0         F:   4.4
Sum Cations: 2423.6  Sum Anions: 2313.8  Cations/Anions: 1.05   Tot. P:  21.9
Tot. Al:  111.3    Ext. Al:    2.5    Fe:     2.0      Mn:     0.0    SiO2:  0.48

ID: 1A3-038   Name: LITTLE ROUND POND                State: NY  Date: 04NOV84
Sample Type: REGULAR             Latitude: 42-56'25"N   Longitude: 73-46'40"W
Elevation:   47   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   5.8
Lake Area:      12 Watershed Area:    148 WA/LA:    12.4 Hydro Type: DRAINAGE
Residence Time:  0.51  Secchi Depth:  0.8   Turbidity:   3.4     Color:   35
Closed pH: 7.52        Equil. pH: 8.29             ANC: 1504.2        DOC:  6.21
Closed DIC: 18.76   Equil. DIC: 16.45    Meas. Cond: 231.7   Cal. Cond: 244.2
Ca: 1268.0           Mg:  446.7        Na:  442.0         K:  32.6      NH4:  24.3
SO4:  245.5        HCO3: 1394.7       Cl:  476.3        NO3:   1.2         F:   4.0
Sum Cations: 2213.6  Sum Anions: 2128.7  Cations/Anions: 1.04   Tot. P:  64.7
Tot. Al:  131.8    Ext. Al:    1.7    Fe:    71.0      Mn:   104.0    SiO2:  2.97

ID: 1A3-039   Name: WOODMAN POND                     State: NY  Date: 15NOV84
Sample Type: REGULAR             Latitude: 42-51'15"N   Longitude: 75-34'10"W
Elevation:  347   Surface Temp:  6.4  Stratified: MIXED      Site Depth:  14.0
Lake Area:      38 Watershed Area:   3761 WA/LA:    99.5 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  8.8   Turbidity:   0.7     Color:   20
Closed pH: 8.08        Equil. pH: 8.77             ANC: 2722.0        DOC:  3.40
Closed DIC: 32.37   Equil. DIC: 29.04    Meas. Cond: 317.5   Cal. Cond: 370.9
Ca: 1810.4           Mg: 1378.7        Na:  273.2         K:  22.5      NH4:   6.1
SO4:  372.3        HCO3: 2408.6       Cl:  462.1        NO3:   1.0         F:   2.2
Sum Cations: 3490.8  Sum Anions: 3275.2  Cations/Anions: 1.07   Tot. P:   7.0
Tot. Al:   20.0    Ext. Al:    1.0    Fe:     0.0      Mn:     0.0    SiO2:  4.57

ID: 1A3-040   Name: ZACK POND                        State: NY  Date: 15OCT84
Sample Type: REGULAR             Latitude: 43-56'00"N   Longitude: 74-11'00"W
Elevation:  566   Surface Temp: 13.1  Stratified: MIXED      Site Depth:   7.6
Lake Area:      36 Watershed Area:    202 WA/LA:     5.6 Hydro Type: DRAINAGE
Residence Time:  1.08  Secchi Depth:  7.5   Turbidity:   0.2     Color:   10
Closed pH: 6.83        Equil. pH: 7.09             ANC:   75.7        DOC:  2.55
Closed DIC:  1.08   Equil. DIC:  0.33    Meas. Cond:  24.0   Cal. Cond:  24.1
Ca:  126.1           Mg:   36.4        Na:   31.8         K:   5.5      NH4:   1.8
SO4:  108.6        HCO3:   65.1       Cl:   10.2        NO3:   0.1         F:   2.6
Sum Cations:  201.7  Sum Anions:  186.7  Cations/Anions: 1.08   Tot. P:   0.0
Tot. Al:   11.9    Ext. Al:    0.9    Fe:    49.0      Mn:     2.0    SiO2:  0.12

ID: 1A3-041   Name: THIRD LAKE (ESSEX CHAIN)         State: NY  Date: 15OCT84
Sample Type: REGULAR             Latitude: 43-52'30"N   Longitude: 74-15'00"W
Elevation:  487   Surface Temp: 13.2  Stratified: MIXED      Site Depth:   6.7
Lake Area:     102 Watershed Area:   1914 WA/LA:    18.7 Hydro Type: DRAINAGE
Residence Time:  0.26  Secchi Depth:  4.8   Turbidity:   0.3     Color:   25
Closed pH: 7.56        Equil. pH: 7.92             ANC:  460.0        DOC:  4.44
Closed DIC:  5.35   Equil. DIC:  5.13    Meas. Cond:  57.6   Cal. Cond:  65.1
Ca:  522.0           Mg:   63.3        Na:   28.1         K:  12.1      NH4:   1.4
SO4:  113.3        HCO3:  410.3       Cl:    8.7        NO3:   0.5         F:   2.7
Sum Cations:  626.8  Sum Anions:  537.4  Cations/Anions: 1.17   Tot. P:   1.7
Tot. Al:   21.8    Ext. Al:    0.1    Fe:    25.0      Mn:    12.0    SiO2:  1.70
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A3-042   Name: CHENEY POND                        State: NY  Date: 15OCT84
Sample Type: REGULAR            Latitude: 43-52'40"N    Longitude: 74-09'45"W
Elevation:  503   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   2.4
Lake Area:        7 Watershed Area:     158 WA/LA:     21.6 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  2.5   Turbidity:   0.9      Color:   20
Closed pH: 6.03        Equil. pH: 6.65              ANC:   40.3          DOC:  5.13
Closed DIC:  1.19   Equil. DIC:  0.46    Meas. Cond:  25.2   Cal. Cond:  24.4
Ca:  121.3          Mg:   32.7        Na:   32.9          K:   3.5       NH4:  5.9
SO4:  130.8       HCO3:   33.7        Cl:    9.4        NO3:   0.6          F:  3.2
Sum Cations:  196.8  Sum Anions:  177.7  Cations/Anions: 1.11   Tot. P:   2.1
Tot. Al:  106.9    Ext. Al:  20.0     Fe:   66.0      Mn:    20.0     SiO2:  2.24

ID: 1A3-043   Name: UNKNOWN POND                       State: NY  Date: 15OCT84
Sample Type: REGULAR            Latitude: 43-49'10"N    Longitude: 74-17'00"W
Elevation:  497   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   4.6
Lake Area:       14 Watershed Area:     497 WA/LA:     35.8 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  2.2   Turbidity:   0.7      Color:   65
Closed pH: 6.81        Equil. pH: 7.55              ANC:  250.5          DOC:  6.95
Closed DIC:  3.47   Equil. DIC:  2.67    Meas. Cond:  53.8   Cal. Cond:  57.3
Ca:  316.2          Mg:   59.6        Na:  140.5          K:   7.5       NH4:  1.8
SO4:   94.0       HCO3:  209.6        Cl:  138.4        NO3:   0.1          F:  3.4
Sum Cations:  525.7  Sum Anions:  445.8  Cations/Anions: 1.18   Tot. P:   0.0
Tot. Al:  124.4    Ext. Al:  10.4     Fe:   92.0      Mn:    12.0     SiO2:  5.61

ID: 1A3-044   Name: ROSS POND                          State: NY  Date: 15OCT84
Sample Type: REGULAR            Latitude: 43-47'40"N    Longitude: 74-08'45"W
Elevation:  533   Surface Temp: 12.6  Stratified: MIXED      Site Depth:   7.3
Lake Area:       10 Watershed Area:     106 WA/LA:     11.2 Hydro Type: DRAINAGE
Residence Time:  0.56  Secchi Depth:  3.4   Turbidity:   0.4      Color:   30
Closed pH: 6.31        Equil. pH: 6.92              ANC:   41.7          DOC:  4.55
Closed DIC:  1.10   Equil. DIC:  0.62    Meas. Cond:  21.8   Cal. Cond:  22.3
Ca:  112.4          Mg:   42.8        Na:   21.2          K:  10.2       NH4:  2.2
SO4:  106.8       HCO3:   42.4        Cl:    8.4        NO3:   0.0          F:  2.8
Sum Cations:  189.1  Sum Anions:  160.5  Cations/Anions: 1.18   Tot. P:   0.0
Tot. Al:   90.3    Ext. Al:   8.7     Fe:  125.0      Mn:    22.0     SiO2:  0.09

ID: 1A3-045   Name: CENTER POND                        State: NY  Date: 15OCT84
Sample Type: REGULAR            Latitude: 43-44'30"N    Longitude: 74-13'00"W
Elevation:  527   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   4.3
Lake Area:        6 Watershed Area:     259 WA/LA:     43.2 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  1.4   Turbidity:   0.6      Color:   75
Closed pH: 6.26        Equil. pH: 7.50              ANC:  213.9          DOC:  7.01
Closed DIC:  5.00   Equil. DIC:  2.07    Meas. Cond:  35.0   Cal. Cond:  35.4
Ca:  224.6          Mg:   69.7        Na:   38.5          K:   6.0       NH4:  1.7
SO4:   91.9       HCO3:  169.9        Cl:    9.3        NO3:   0.1          F:  2.6
Sum Cations:  340.6  Sum Anions:  273.9  Cations/Anions: 1.24   Tot. P:   4.0
Tot. Al:   63.7    Ext. Al:   7.5     Fe:  119.0      Mn:    15.0     SiO2:  5.40

ID: 1A3-046   Name: LONG POND                          State: NY  Date: 15OCT84
Sample Type: REGULAR            Latitude: 43-38'15"N    Longitude: 74-17'20"W
Elevation:  564   Surface Temp: 13.0  Stratified: MIXED      Site Depth:  10.4
Lake Area:       15 Watershed Area:     155 WA/LA:     10.1 Hydro Type: DRAINAGE
Residence Time:  0.72  Secchi Depth:  4.7   Turbidity:   0.3      Color:   10
Closed pH: 6.07        Equil. pH: 6.44              ANC:   26.3          DOC:  2.81
Closed DIC:  0.58   Equil. DIC:  0.91    Meas. Cond:  21.3   Cal. Cond:  20.7
Ca:   95.3          Mg:   35.9        Na:   22.4          K:   5.8       NH4:  1.7
SO4:  122.0       HCO3:   17.6        Cl:    7.5        NO3:   0.0          F:  2.3
Sum Cations:  161.7  Sum Anions:  149.4  Cations/Anions: 1.08   Tot. P:   0.0
Tot. Al:   33.4    Ext. Al:   6.2     Fe:   51.0      Mn:    17.0     SiO2:  1.51
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A3-047   Name: INDEPENDENCE LAKE                   State: NY  Date: 14OCT84
Sample Type: REG/SPC/NRC/      Latitude: 43-46'20"N   Longitude: 74-58'45"W
Elevation:  589   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   3.0
Lake Area:     20 Watershed Area:     168 WA/LA:     8.4 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  2.2   Turbidity:   1.1      Color:   25
Closed pH: 6.71        Equil. pH: 6.68              ANC:   44.1         DOC:  4.69
Closed DIC:  0.51   Equil. DIC:  0.49    Meas. Cond:  24.1   Cal. Cond:  22.2
Ca:  100.3            Mg:   31.1         Na:    43.4        K:   9.4       NH4:  0.0
SO4:  113.0       HCO3:   37.3       Cl:     7.9       NO3:   0.2          F:  5.8
Sum Cations:  184.6  Sum Anions:  164.2  Cations/Anions: 1.12   Tot. P:   1.6
Tot. Al:   58.8   Ext. Al:   8.3   Fe:     0.0     Mn:    0.0    SiO2:  4.79

ID: 1A3-048   Name: GRASS POND                          State: NY  Date: 14OCT84
Sample Type: REGULAR           Latitude: 43-41'35"N   Longitude: 75-03'40"W
Elevation:  546   Surface Temp: 11.9  Stratified: MIXED      Site Depth:   5.5
Lake Area:      5 Watershed Area:     228 WA/LA:    44.7 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  4.8   Turbidity:   0.3      Color:   30
Closed pH: 5.34        Equil. pH: 5.54              ANC:   14.6         DOC:  4.67
Closed DIC:  0.86   Equil. DIC:  0.18    Meas. Cond:  25.2   Cal. Cond:  22.9
Ca:   93.4            Mg:   27.1         Na:    35.3        K:   8.2       NH4:  1.3
SO4:  126.0       HCO3:    5.6       Cl:     8.8       NO3:  12.3          F:  4.9
Sum Cations:  169.0  Sum Anions:  157.5  Cations/Anions: 1.07   Tot. P:   0.2
Tot. Al:  459.8   Ext. Al: 197.7   Fe:    36.0     Mn:   53.0    SiO2:  7.04

ID: 1A3-049   Name: NELSON LAKE                         State: NY  Date: 16OCT84
Sample Type: REGULAR           Latitude: 43-38'45"N   Longitude: 75-03'30"W
Elevation:  487   Surface Temp: 13.3  Stratified: MIXED      Site Depth:   1.8
Lake Area:     37 Watershed Area:     495 WA/LA:    13.5 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  2.0   Turbidity:   1.0      Color:   40
Closed pH: 6.34        Equil. pH: 7.00              ANC:   76.6         DOC:  4.40
Closed DIC:  1.34   Equil. DIC:  0.79    Meas. Cond:  28.0   Cal. Cond:  28.0
Ca:  138.1            Mg:   45.3         Na:    45.2        K:   9.6       NH4:  2.9
SO4:  118.5       HCO3:   57.4       Cl:    17.7       NO3:   6.6          F:  4.3
Sum Cations:  241.3  Sum Anions:  204.6  Cations/Anions: 1.18   Tot. P:   2.6
Tot. Al:  167.6   Ext. Al:  22.3   Fe:    97.0     Mn:   36.0    SiO2:  5.75

ID: 1A3-051   Name: ROUND POND                          State: NY  Date: 03NOV84
Sample Type: REGULAR           Latitude: 43-21'09"N   Longitude: 73-40'37"W
Elevation:  122   Surface Temp: 13.2  Stratified: MIXED      Site Depth:  11.0
Lake Area:     14 Watershed Area:     117 WA/LA:     8.6 Hydro Type: SEEPAGE
Residence Time:     *   Secchi Depth:  5.4   Turbidity:   0.3      Color:   10
Closed pH: 7.74        Equil. pH: 8.35              ANC: 1480.3         DOC:  2.80
Closed DIC: 16.63   Equil. DIC: 15.35    Meas. Cond: 152.4   Cal. Cond: 154.6
Ca: 1029.4            Mg:  440.1         Na:    66.2        K:  19.0       NH4:  3.7
SO4:   70.3       HCO3: 1186.4       Cl:    78.5       NO3:   0.3          F:  2.3
Sum Cations: 1558.5  Sum Anions: 1345.6  Cations/Anions: 1.16   Tot. P:   4.2
Tot. Al:   40.0   Ext. Al:   5.4   Fe:     0.0     Mn:    0.0    SiO2:  0.46

ID: 1A3-053   Name: GREEN POND                          State: NY  Date: 17OCT84
Sample Type: REGULAR           Latitude: 43-28'47"N   Longitude: 75-56'05"W
Elevation:  189   Surface Temp: 13.6  Stratified: MIXED      Site Depth:   1.5
Lake Area:     14 Watershed Area:      96 WA/LA:     6.9 Hydro Type: CLOSED
Residence Time:     *   Secchi Depth:  1.8   Turbidity:   0.2      Color:   10
Closed pH: 8.14        Equil. pH: 8.46              ANC: 1677.3         DOC:  0.76
Closed DIC: 19.21   Equil. DIC: 18.46    Meas. Cond: 180.1   Cal. Cond: 183.2
Ca: 1140.7            Mg:  647.4         Na:    56.7        K:   9.8       NH4:  2.7
SO4:   60.0       HCO3: 1528.4       Cl:     9.8       NO3:  28.2          F:  1.2
Sum Cations: 1857.3  Sum Anions: 1650.7  Cations/Anions: 1.13   Tot. P:   0.0
Tot. Al:   21.2   Ext. Al:   7.1   Fe:     0.0     Mn:   20.0    SiO2:  0.01
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A3-057   Name: (NO NAME)                         State: NY  Date: 08OCT84
Sample Type: REGULAR            Latitude: 44-41'47"N    Longitude: 73-37'50"W
Elevation:  223   Surface Temp:  8.5  Stratified: MIXED       Site Depth:   9.1
Lake Area:       9 Watershed Area: 149909 WA/LA: 16843.7 Hydro Type: RESERVOIR
Residence Time:  0.00  Secchi Depth:  3.4   Turbidity:   0.8      Color:   35
Closed pH: 7.04        Equil. pH: 7.82             ANC:  422.4        DOC:  5.25
Closed DIC:  4.93   Equil. DIC:  4.69    Meas. Cond:  73.9   Cal. Cond:  81.9
Ca:  448.1          Mg:  181.8        Na:  139.6         K:  14.3       NH4:  1.2
SO4:  146.7       HCO3:  379.3       Cl:  113.1       NO3:   0.0          F:  2.6
Sum Cations:  785.0  Sum Anions:  643.1  Cations/Anions: 1.22   Tot. P:   1.3
Tot. Al:   50.9    Ext. Al:   0.0    Fe:  171.0      Mn:   21.0    SiO2:  6.96

ID: 1A3-058   Name: RICE RESERVOIR                    State: NY  Date: 04NOV84
Sample Type: REGULAR            Latitude: 43-05'37"N    Longitude: 74-20'18"W
Elevation:  339   Surface Temp:  9.9  Stratified: MIXED       Site Depth:   4.6
Lake Area:       7 Watershed Area:    311 WA/LA:    42.6 Hydro Type: RESERVOIR
Residence Time:  0.10  Secchi Depth:  1.7   Turbidity:   1.4      Color:   30
Closed pH: 7.29        Equil. pH: 7.38             ANC:  208.7        DOC:  3.27
Closed DIC:  2.69   Equil. DIC:  2.35    Meas. Cond:  37.7   Cal. Cond:  38.0
Ca:  207.6          Mg:   62.6        Na:   44.1         K:   8.4       NH4:  0.9
SO4:  122.3       HCO3:  184.0       Cl:   15.8       NO3:   1.0          F:  3.0
Sum Cations:  323.8  Sum Anions:  326.5  Cations/Anions: 0.99   Tot. P:   6.3
Tot. Al:   47.8    Ext. Al:   2.7    Fe:   52.0      Mn:    0.0    SiO2:  3.33

ID: 1A3-060   Name: BUTTERNUT POND                    State: NY  Date: 08OCT84
Sample Type: REGULAR            Latitude: 44-25'45"N    Longitude: 73-29'52"W
Elevation:  203   Surface Temp: 10.4  Stratified: MIXED       Site Depth:   3.0
Lake Area:      65 Watershed Area:   1370 WA/LA:    21.0 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  3.5   Turbidity:   0.3      Color:   15
Closed pH: 7.45        Equil. pH: 7.92             ANC:  529.7        DOC:  4.27
Closed DIC:  5.83   Equil. DIC:  6.00    Meas. Cond: 145.2   Cal. Cond: 150.0
Ca:  605.8          Mg:  181.8        Na:  517.2         K:   8.1       NH4:  1.9
SO4:  162.2       HCO3:  475.1       Cl:  567.0       NO3:   0.1          F:  1.5
Sum Cations: 1314.8  Sum Anions: 1208.4  Cations/Anions: 1.09   Tot. P:   2.6
Tot. Al:   43.5    Ext. Al:   0.0    Fe:   11.0      Mn:    3.0    SiO2:  0.65

ID: 1A3-061   Name: CRYSTAL LAKE                      State: NY  Date: 18OCT84
Sample Type: REGULAR            Latitude: 43-39'22"N    Longitude: 73-44'35"W
Elevation:  290   Surface Temp: 13.9  Stratified: WEAK        Site Depth:  12.1
Lake Area:      21 Watershed Area:    321 WA/LA:    15.4 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  6.2   Turbidity:   0.2      Color:   20
Closed pH: 7.36        Equil. pH: 7.68             ANC:  274.0        DOC:  3.07
Closed DIC:  3.36   Equil. DIC:  3.08    Meas. Cond:  49.4   Cal. Cond:  55.1
Ca:  319.7          Mg:   87.1        Na:   64.6         K:   7.9       NH4:  1.1
SO4:  153.1       HCO3:  270.2       Cl:   41.1       NO3:   0.1          F:  1.7
Sum Cations:  480.4  Sum Anions:  466.9  Cations/Anions: 1.03   Tot. P:   1.8
Tot. Al:   59.0    Ext. Al:   0.0    Fe:    1.0      Mn:    0.0    SiO2:  2.99

ID: 1A3-062   Name: SOUTH COLWELL POND                State: NY  Date: 17OCT84
Sample Type: REGULAR            Latitude: 43-41'58"N    Longitude: 76-11'43"W
Elevation:   75   Surface Temp: 14.6  Stratified: MIXED       Site Depth:   1.0
Lake Area:      42 Watershed Area:    324 WA/LA:     7.7 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.0   Turbidity:   1.7      Color:   30
Closed pH: 9.36        Equil. pH: 8.90             ANC: 1198.1        DOC:  5.40
Closed DIC: 11.51   Equil. DIC: 12.04    Meas. Cond: 220.3   Cal. Cond: 229.7
Ca:  989.5          Mg:  501.0        Na:  460.2         K:  19.2       NH4:  1.4
SO4:  266.2       HCO3: 1004.6       Cl:  632.6       NO3:   0.7          F:  5.1
Sum Cations: 1971.3  Sum Anions: 1983.6  Cations/Anions: 0.99   Tot. P:  21.6
Tot. Al:   33.9    Ext. Al:   7.1    Fe:   20.0      Mn:    6.0    SiO2:  0.43
```

(continued)

TABLE 3-1 (continued)

```
ID: 1A3-063   Name: (NO NAME)                      State: NY  Date: 14OCT84
Sample Type: REGULAR            Latitude: 43-41'44"N   Longitude: 75-00'18"W
Elevation:  516   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   3.0
Lake Area:      16 Watershed Area:  29143 WA/LA:  1810.1 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  3.0   Turbidity:   0.6      Color:   20
Closed pH: 6.55        Equil. pH: 7.28              ANC:  121.4        DOC:  3.03
Closed DIC:  2.20   Equil. DIC:  1.39    Meas. Cond:  38.5   Cal. Cond:  36.4
Ca:  165.3          Mg:   56.3       Na:   60.8          K:  14.4       NH4:   1.7
SO4:  123.5       HCO3:  114.5       Cl:   32.8        NO3:  18.2          F:   9.3
Sum Cations:  298.7  Sum Anions:  298.4  Cations/Anions: 1.00   Tot. P:   7.4
Tot. Al:  108.5    Ext. Al:  11.1     Fe:  123.0       Mn:   29.0    SiO2:  6.20

ID: 1A3-064   Name: CORK CENTER RESERVOIR          State: NY  Date: 04NOV84
Sample Type: REGULAR            Latitude: 43-02'29"N   Longitude: 74-27'58"W
Elevation:  326   Surface Temp:  9.4  Stratified: MIXED      Site Depth:   2.2
Lake Area:      16 Watershed Area:    111 WA/LA:     7.2 Hydro Type: RESERVOIR
Residence Time:  0.32  Secchi Depth:  2.3   Turbidity:   0.9      Color:   20
Closed pH: 7.75        Equil. pH: 8.18              ANC: 1072.4        DOC:  2.56
Closed DIC: 12.74   Equil. DIC: 11.29    Meas. Cond: 135.3   Cal. Cond: 132.1
Ca:  972.6          Mg:  188.4       Na:  178.0          K:   8.8       NH4:   0.8
SO4:  121.2       HCO3:  966.7       Cl:   15.8        NO3:   1.1          F:   3.5
Sum Cations: 1348.5  Sum Anions: 1115.5  Cations/Anions: 1.21   Tot. P:  11.0
Tot. Al:   81.0    Ext. Al:   4.3     Fe:   40.0       Mn:    2.0    SiO2:  1.04

ID: 1A3-065   Name: SOUTH LAKE (EAST BRANCH)       State: NY  Date: 16OCT84
Sample Type: REGULAR            Latitude: 43-30'54"N   Longitude: 74-53'32"W
Elevation:  615   Surface Temp: 13.2  Stratified: MIXED      Site Depth:   8.0
Lake Area:     196 Watershed Area:   1644 WA/LA:     8.4 Hydro Type: RESERVOIR
Residence Time:  0.57  Secchi Depth:  8.0   Turbidity:   0.2      Color:   10
Closed pH: 5.22        Equil. pH: 5.34              ANC:    2.9        DOC:  1.67
Closed DIC:  0.35   Equil. DIC:  0.24    Meas. Cond:  21.9   Cal. Cond:  21.0
Ca:   72.6          Mg:   25.3       Na:   22.7          K:   6.1       NH4:   1.9
SO4:  113.5       HCO3:    1.5       Cl:    7.8        NO3:  15.1          F:   2.8
Sum Cations:  136.1  Sum Anions:  140.8  Cations/Anions: 0.97   Tot. P:   0.0
Tot. Al:  161.5    Ext. Al:   7.4     Fe:   47.0       Mn:   66.0    SiO2:  2.84

ID: 1A3-066   Name: ROCK POND                      State: NY  Date: 15OCT84
Sample Type: REGULAR            Latitude: 43-37'50"N   Longitude: 74-18'12"W
Elevation:  570   Surface Temp: 12.7  Stratified: MIXED      Site Depth:   3.0
Lake Area:      13 Watershed Area:    109 WA/LA:     8.1 Hydro Type: DRAINAGE
Residence Time:  0.26  Secchi Depth:  3.5   Turbidity:   0.3      Color:   10
Closed pH: 5.69        Equil. pH: 5.90              ANC:   11.3        DOC:  3.61
Closed DIC:  0.43   Equil. DIC:  0.22    Meas. Cond:  18.7   Cal. Cond:  18.5
Ca:   82.2          Mg:   28.1       Na:   21.1          K:   5.9       NH4:   1.6
SO4:  112.7       HCO3:    9.7       Cl:    6.0        NO3:   0.0          F:   2.5
Sum Cations:  140.3  Sum Anions:  130.9  Cations/Anions: 1.07   Tot. P:   1.5
Tot. Al:   56.6    Ext. Al:  22.0     Fe:   62.0       Mn:   13.0    SiO2:  0.22

ID: 1A3-067   Name: ADIRONDACK LAKE                State: NY  Date: 30OCT84
Sample Type: REGULAR            Latitude: 43-47'22"N   Longitude: 74-15'42"W
Elevation:  506   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   3.0
Lake Area:      85 Watershed Area:    298 WA/LA:     3.5 Hydro Type: RESERVOIR
Residence Time:  0.55  Secchi Depth:  2.4   Turbidity:   0.8      Color:   30
Closed pH: 7.16        Equil. pH: 7.94              ANC:  605.0        DOC:  5.01
Closed DIC:  7.65   Equil. DIC:  6.44    Meas. Cond:  84.2   Cal. Cond:  86.8
Ca:  568.1          Mg:  104.6       Na:   88.7          K:  25.2       NH4:   5.9
SO4:  104.7       HCO3:  523.9       Cl:  102.6        NO3:  13.6          F:   2.1
Sum Cations:  792.5  Sum Anions:  748.2  Cations/Anions: 1.06   Tot. P:  11.8
Tot. Al:   16.2    Ext. Al:   0.0     Fe:   85.0       Mn:   13.0    SiO2:  1.96
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B1-002   Name: ROUND POND                           State: NY  Date: 15NOV84
Sample Type: REGULAR             Latitude: 41-56'20"N    Longitude: 74-35'15"W
Elevation:  593   Surface Temp:  4.1  Stratified: MIXED       Site Depth:   4.6
Lake Area:        8 Watershed Area:      83 WA/LA:     10.3 Hydro Type: DRAINAGE
Residence Time:  0.32  Secchi Depth:  4.6   Turbidity:   0.3       Color:    10
Closed pH: 5.40        Equil. pH: 5.39              ANC:    -1.9        DOC:  1.80
Closed DIC:  0.38   Equil. DIC:  0.18   Meas. Cond:  25.6   Cal. Cond:  25.8
Ca:   89.3          Mg:    37.8        Na:    51.3          K:    4.6      NH4:   1.7
SO4:  124.5        HCO3:     2.8       Cl:   46.5         NO3:   0.5         F:   1.6
Sum Cations:  189.5  Sum Anions:  176.0  Cations/Anions: 1.08  Tot. P:   4.0
Tot. Al:    82.0   Ext. Al:  38.0     Fe:    10.0       Mn:   20.0    SiO2:  0.26

ID: 1B1-003   Name: NO NAME(ALLENS LAKE)                 State: PA  Date: 12NOV84
Sample Type: REGULAR             Latitude: 41-40'10"N    Longitude: 76-37'15"W
Elevation:  585   Surface Temp:  5.5  Stratified: MIXED       Site Depth:   1.2
Lake Area:       13 Watershed Area:      65 WA/LA:      5.2 Hydro Type: RESERVOIR
Residence Time:  0.24  Secchi Depth:  1.5   Turbidity:   0.8       Color:    45
Closed pH: 4.80        Equil. pH: 4.76              ANC:   -21.0        DOC:  3.10
Closed DIC:  0.51   Equil. DIC:  0.22   Meas. Cond:  25.5   Cal. Cond:  25.6
Ca:   55.4          Mg:    34.5        Na:    19.1          K:    5.9      NH4:   7.8
SO4:  116.2        HCO3:     0.9       Cl:   23.7         NO3:   4.7         F:   3.5
Sum Cations:  142.2  Sum Anions:  149.0  Cations/Anions: 0.95  Tot. P:  24.0
Tot. Al:   117.0   Ext. Al:  88.0     Fe:   180.0       Mn:  220.0    SiO2:  0.07

ID: 1B1-004   Name: NO NAME(SOUTH MTN. LAKE);            State: PA  Date: 12NOV84
Sample Type: REGULAR             Latitude: 41-37'30"N    Longitude: 76-45'20"W
Elevation:  649   Surface Temp:  5.2  Stratified: MIXED       Site Depth:   2.1
Lake Area:        8 Watershed Area:     114 WA/LA:     14.3 Hydro Type: DRAINAGE
Residence Time:  0.17  Secchi Depth:  1.6   Turbidity:   2.0       Color:    43
Closed pH: 6.38        Equil. pH: 6.72              ANC:    44.7        DOC:  4.25
Closed DIC:  0.89   Equil. DIC:  0.64   Meas. Cond:  20.1   Cal. Cond:  20.2
Ca:   83.1          Mg:    51.8        Na:    17.4          K:    9.6      NH4:   0.8
SO4:   91.7        HCO3:    37.3       Cl:   18.5         NO3:   1.2         F:   3.3
Sum Cations:  163.2  Sum Anions:  152.0  Cations/Anions: 1.07  Tot. P:  24.0
Tot. Al:    47.5   Ext. Al:   4.0     Fe:   150.0       Mn:   70.0    SiO2:  0.16

ID: 1B1-006   Name: LAKE JOHN                            State: PA  Date: 12NOV84
Sample Type: REGULAR             Latitude: 41-25'50"N    Longitude: 76-16'15"W
Elevation:  619   Surface Temp:  7.0  Stratified: MIXED       Site Depth:   1.8
Lake Area:       23 Watershed Area:     316 WA/LA:     14.0 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  1.8   Turbidity:   0.6       Color:    10
Closed pH: 5.71        Equil. pH: 6.09              ANC:    11.1        DOC:  3.10
Closed DIC:  0.80   Equil. DIC:  0.27   Meas. Cond:  19.4   Cal. Cond:  19.5
Ca:   95.8          Mg:    28.8        Na:    12.2          K:    3.1      NH4:   2.8
SO4:  104.5        HCO3:    10.9       Cl:   20.3         NO3:   1.0         F:   2.0
Sum Cations:  144.6  Sum Anions:  138.7  Cations/Anions: 1.04  Tot. P:   6.0
Tot. Al:    28.0   Ext. Al:  10.0     Fe:    60.0       Mn:   30.0    SiO2:  0.14

ID: 1B1-007   Name: LOPEZ POND                           State: PA  Date: 12NOV84
Sample Type: REGULAR             Latitude: 41-23'50"N    Longitude: 76-23'28"W
Elevation:  679   Surface Temp:  6.3  Stratified: MIXED       Site Depth:   1.2
Lake Area:        8 Watershed Area:     150 WA/LA:     19.2 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  1.2   Turbidity:   0.4       Color:    30
Closed pH: 5.22        Equil. pH: 5.33              ANC:    -9.2        DOC:  4.20
Closed DIC:  0.56   Equil. DIC:  0.22   Meas. Cond:  16.1   Cal. Cond:  16.1
Ca:   43.4          Mg:    34.5        Na:    11.7          K:    7.7      NH4:   1.1
SO4:   79.5        HCO3:     2.4       Cl:   15.2         NO3:   3.8         F:   1.9
Sum Cations:  105.4  Sum Anions:  102.9  Cations/Anions: 1.02  Tot. P:   0.0
Tot. Al:   115.0   Ext. Al:  64.0     Fe:    70.0       Mn:   60.0    SiO2:  0.83
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B1-008   Name: ROUSE POND                          State: PA  Date: 12NOV84
Sample Type: REGULAR            Latitude: 41-25'35"N    Longitude: 76-17'15"W
Elevation:  628   Surface Temp:  7.1  Stratified: MIXED      Site Depth:   5.2
Lake Area:      37 Watershed Area:     166 WA/LA:      4.5 Hydro Type: DRAINAGE
Residence Time:  1.20  Secchi Depth:  2.8   Turbidity:   0.8      Color:   30
Closed pH: 6.20       Equil. pH: 6.60               ANC:   28.9         DOC:  3.40
Closed DIC:  0.92   Equil. DIC:  0.53    Meas. Cond:  20.3   Cal. Cond:  20.7
Ca:  110.8           Mg:   27.1         Na:   10.9          K:   5.4      NH4:  1.1
SO4:  102.4        HCO3:   24.6        Cl:   24.3        NO3:   1.3         F:  1.8
Sum Cations:  156.1  Sum Anions:  154.4  Cations/Anions: 1.01   Tot. P:   6.0
Tot. Al:   34.0    Ext. Al:   2.0     Fe:  110.0       Mn:   40.0    SiO2:  0.39

ID: 1B1-010   Name: GANOGA LAKE                         State: PA  Date: 12NOV84
Sample Type: REGULAR            Latitude: 41-21'30"N    Longitude: 76-19'15"W
Elevation:  691   Surface Temp:  5.9  Stratified: MIXED      Site Depth:   2.4
Lake Area:      32 Watershed Area:     168 WA/LA:      5.3 Hydro Type: DRAINAGE
Residence Time:  0.48  Secchi Depth:  2.4   Turbidity:   0.3      Color:    0
Closed pH: 4.76       Equil. pH: 4.70               ANC:  -23.6         DOC:  0.50
Closed DIC:  0.37   Equil. DIC:  0.21    Meas. Cond:  32.1   Cal. Cond:  32.7
Ca:   75.8           Mg:   31.3         Na:   19.1          K:  10.7      NH4:  5.5
SO4:  162.0        HCO3:    0.5        Cl:   25.7        NO3:  18.0         F:  2.1
Sum Cations:  165.4  Sum Anions:  208.2  Cations/Anions: 0.79   Tot. P:   0.0
Tot. Al:  330.0    Ext. Al: 260.0     Fe:   20.0       Mn:  280.0    SiO2:  0.16

ID: 1B1-012   Name: COBEY POND                          State: PA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 41-34'00"N    Longitude: 75-04'15"W
Elevation:  334   Surface Temp: 10.3  Stratified: MIXED      Site Depth:   1.8
Lake Area:      17 Watershed Area:     155 WA/LA:      9.3 Hydro Type: RESERVOIR
Residence Time:  0.17  Secchi Depth:  1.8   Turbidity:   1.7      Color:   35
Closed pH: 6.59       Equil. pH: 7.19               ANC:  102.3         DOC:  5.96
Closed DIC:  1.67   Equil. DIC:  1.07    Meas. Cond:  29.2   Cal. Cond:  27.8
Ca:   91.3           Mg:   77.7         Na:   51.1          K:  14.7      NH4:  2.3
SO4:  104.2        HCO3:   91.5        Cl:   21.7        NO3:   0.4         F:  3.8
Sum Cations:  237.5  Sum Anions:  221.6  Cations/Anions: 1.07   Tot. P:  17.5
Tot. Al:   58.0    Ext. Al:   9.4     Fe:  114.0       Mn:   73.0    SiO2:  0.46

ID: 1B1-015   Name: TINKWIG LAKE                        State: PA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 41-30'00"N    Longitude: 75-07'35"W
Elevation:  337   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   2.8
Lake Area:      48 Watershed Area:     868 WA/LA:     18.0 Hydro Type: RESERVOIR
Residence Time:  0.14  Secchi Depth:  2.8   Turbidity:   1.4      Color:   30
Closed pH: 6.45       Equil. pH: 7.35               ANC:  146.3         DOC:  5.51
Closed DIC:  2.93   Equil. DIC:  1.49    Meas. Cond:  33.2   Cal. Cond:  33.7
Ca:  126.3           Mg:   89.9         Na:   69.6          K:   7.5      NH4:  1.9
SO4:   99.0        HCO3:  124.7        Cl:   45.2        NO3:   0.1         F:  3.2
Sum Cations:  295.6  Sum Anions:  272.3  Cations/Anions: 1.09   Tot. P:  17.6
Tot. Al:   65.1    Ext. Al:  10.6     Fe:   63.0       Mn:   32.0    SiO2:  1.02

ID: 1B1-019   Name: (NO NAME)                           State: NY  Date: 10NOV84
Sample Type: REGULAR            Latitude: 41-30'40"N    Longitude: 74-46'25"W
Elevation:  379   Surface Temp:  8.2  Stratified: MIXED      Site Depth:   2.1
Lake Area:       9 Watershed Area:      78 WA/LA:      9.0 Hydro Type: RESERVOIR
Residence Time:  0.19  Secchi Depth:  2.1   Turbidity:   0.9      Color:   20
Closed pH: 6.43       Equil. pH: 7.15               ANC:   58.3         DOC:  3.80
Closed DIC:  1.13   Equil. DIC:  0.66    Meas. Cond:  35.0   Cal. Cond:  34.9
Ca:  123.3           Mg:   61.7         Na:   82.6          K:  10.7      NH4:  0.6
SO4:  139.7        HCO3:   45.2        Cl:   76.2        NO3:   0.0         F:  3.0
Sum Cations:  279.3  Sum Anions:  264.1  Cations/Anions: 1.06   Tot. P: 200.0
Tot. Al:   19.0    Ext. Al:   4.0     Fe:   20.0       Mn:   30.0    SiO2:  0.54
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B1-020   Name: BURNT HOPE LAKE                     State: NY  Date: 10NOV84
Sample Type: REGULAR             Latitude: 41-31'30"N   Longitude: 74-44'38"W
Elevation:  376   Surface Temp:  8.0  Stratified: MIXED      Site Depth:   2.7
Lake Area:      18 Watershed Area:    692 WA/LA:     38.4 Hydro Type: RESERVOIR
Residence Time:  0.06  Secchi Depth:  2.7   Turbidity:   0.5     Color:    0
Closed pH: 6.64       Equil. pH: 7.23                ANC:   40.3      DOC:  3.60
Closed DIC:  0.65   Equil. DIC:  0.57    Meas. Cond:  41.1   Cal. Cond:  41.4
Ca:  141.7          Mg:   60.0       Na:   111.4         K:  10.0       NH4:  2.2
SO4:  175.3       HCO3:   32.0       Cl:    98.7       NO3:   0.0         F:  3.2
Sum Cations:  325.7  Sum Anions:  309.3  Cations/Anions: 1.05   Tot. P:   6.0
Tot. Al:   30.0    Ext. Al:    4.0    Fe:    20.0      Mn:    0.0     SiO2:  0.23
```

```
ID: 1B1-022   Name: LAKE GILES                          State: PA  Date: 31OCT84
Sample Type: REGULAR             Latitude: 41-22'30"N   Longitude: 75-05'40"W
Elevation:  428   Surface Temp: 14.8  Stratified: WEAK       Site Depth:  22.3
Lake Area:      48 Watershed Area:    176 WA/LA:      3.7 Hydro Type: DRAINAGE
Residence Time:  4.60  Secchi Depth:  9.3   Turbidity:   0.2     Color:    5
Closed pH: 5.30       Equil. pH: 5.26                ANC:    2.2      DOC:  0.61
Closed DIC:  0.22   Equil. DIC:  0.12    Meas. Cond:  38.8   Cal. Cond:  41.1
Ca:   97.5          Mg:   60.0       Na:   108.2         K:  12.7       NH4:  0.7
SO4:  182.8       HCO3:    2.4       Cl:   118.9       NO3:   0.6         F:  3.2
Sum Cations:  283.8  Sum Anions:  307.9  Cations/Anions: 0.92   Tot. P:   5.7
Tot. Al:   76.7    Ext. Al:   19.4    Fe:    26.0      Mn:   85.0     SiO2:  0.13
```

```
ID: 1B1-023   Name: TWIN LAKES (BRINK P)                State: PA  Date: 31OCT84
Sample Type: REGULAR             Latitude: 41-23'00"N   Longitude: 74-54'15"W
Elevation:  409   Surface Temp: 14.4  Stratified: MIXED      Site Depth:   9.1
Lake Area:     115 Watershed Area:    746 WA/LA:      6.5 Hydro Type: DRAINAGE
Residence Time:  1.11  Secchi Depth:  2.4   Turbidity:   0.7     Color:   15
Closed pH: 6.34       Equil. pH: 6.69                ANC:   44.9      DOC:  3.00
Closed DIC:  0.77   Equil. DIC:  0.46    Meas. Cond:  33.6   Cal. Cond:  36.0
Ca:  102.1          Mg:   69.1       Na:    99.0         K:   9.3       NH4:  1.0
SO4:  142.9       HCO3:   42.1       Cl:    90.5       NO3:   0.3         F:  2.7
Sum Cations:  280.9  Sum Anions:  278.5  Cations/Anions: 1.01   Tot. P:  13.2
Tot. Al:   18.5    Ext. Al:    0.6    Fe:     0.0      Mn:    3.0     SiO2:  1.22
```

```
ID: 1B1-024   Name: LAKE PAUPACK                        State: PA  Date: 31OCT84
Sample Type: REGULAR             Latitude: 41-19'30"N   Longitude: 75-15'30"W
Elevation:  490   Surface Temp: 14.0  Stratified: MIXED      Site Depth:   6.0
Lake Area:      43 Watershed Area:   3629 WA/LA:     83.8 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  1.9   Turbidity:   1.8     Color:   30
Closed pH: 7.00       Equil. pH: 7.30                ANC:  145.0      DOC:  5.14
Closed DIC:  1.77   Equil. DIC:  1.50    Meas. Cond:  38.0   Cal. Cond:  39.4
Ca:  204.9          Mg:   55.0       Na:    61.2         K:   9.3       NH4:  1.9
SO4:  131.8       HCO3:  137.0       Cl:    45.4       NO3:   1.3         F:  2.5
Sum Cations:  332.6  Sum Anions:  318.0  Cations/Anions: 1.05   Tot. P:  14.4
Tot. Al:   39.7    Ext. Al:    5.2    Fe:   161.0      Mn:   35.0     SiO2:  0.44
```

```
ID: 1B1-025   Name: BRUCE LAKE                          State: PA  Date: 31OCT84
Sample Type: REGULAR             Latitude: 41-21'00"N   Longitude: 75-10'15"W
Elevation:  530   Surface Temp: 13.8  Stratified: MIXED      Site Depth:   3.0
Lake Area:      23 Watershed Area:     91 WA/LA:      4.0 Hydro Type: DRAINAGE
Residence Time:  0.59  Secchi Depth:  1.8   Turbidity:   1.3     Color:   15
Closed pH: 6.25       Equil. pH: 6.49                ANC:   30.8      DOC:  4.09
Closed DIC:  0.46   Equil. DIC:  0.33    Meas. Cond:  20.5   Cal. Cond:  20.5
Ca:   91.3          Mg:   34.2       Na:    22.0         K:   6.5       NH4:  0.8
SO4:  100.8       HCO3:   31.0       Cl:    23.2       NO3:   0.7         F:  2.2
Sum Cations:  155.5  Sum Anions:  158.0  Cations/Anions: 0.98   Tot. P:  14.1
Tot. Al:   45.3    Ext. Al:    3.2    Fe:    27.0      Mn:   24.0     SiO2:  0.48
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B1-026   Name: (NO NAME)                          State: PA  Date: 31OCT84
Sample Type: REGULAR            Latitude: 41-19'30"N   Longitude: 75-03'45"W
Elevation:  430   Surface Temp: 14.6  Stratified: MIXED      Site Depth:   2.7
Lake Area:       11 Watershed Area:      93 WA/LA:      8.5 Hydro Type: RESERVOIR
Residence Time:  0.27  Secchi Depth:  1.7   Turbidity:    1.4      Color:   15
Closed pH: 6.77        Equil. pH: 7.20              ANC:  115.7         DOC:  2.89
Closed DIC:  1.83   Equil. DIC:  1.33    Meas. Cond:  64.9   Cal. Cond:  70.5
Ca:  174.2            Mg:  102.2        Na:  261.5         K:  19.4       NH4:   1.4
SO4:  171.9         HCO3:  122.3        Cl:  269.9       NO3:   1.9         F:   2.6
Sum Cations:  558.8  Sum Anions:  568.8  Cations/Anions: 0.98   Tot. P:  15.0
Tot. Al:   30.1    Ext. Al:   0.0     Fe:   26.0       Mn:  143.0     SiO2:  0.05

ID: 1B1-027   Name: MUD POND                           State: PA  Date: 31OCT84
Sample Type: REGULAR            Latitude: 41-21'00"N   Longitude: 74-54'20"W
Elevation:  395   Surface Temp: 14.1  Stratified: MIXED      Site Depth:   2.7
Lake Area:        4 Watershed Area:     194 WA/LA:     45.1 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  0.9   Turbidity:    1.0      Color:   95
Closed pH: 5.88        Equil. pH: 6.18              ANC:   41.5         DOC: 11.23
Closed DIC:  0.78   Equil. DIC:  0.22    Meas. Cond:  36.4   Cal. Cond:  36.2
Ca:  104.0            Mg:   66.1        Na:  136.6         K:   3.9       NH4:   1.3
SO4:  103.9         HCO3:   18.0        Cl:  122.3       NO3:   1.4         F:   3.8
Sum Cations:  313.6  Sum Anions:  249.4  Cations/Anions: 1.26   Tot. P:  17.2
Tot. Al:  126.7    Ext. Al:  17.8     Fe:  165.0       Mn:   34.0     SiO2:  3.02

ID: 1B1-028   Name: MEMORY LAKE                        State: PA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 41-18'40"N   Longitude: 75-25'45"W
Elevation:  580   Surface Temp: 10.0  Stratified: MIXED      Site Depth:   0.9
Lake Area:        4 Watershed Area:      60 WA/LA:     14.3 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  0.9   Turbidity:    1.9      Color:   25
Closed pH: 6.76        Equil. pH: 7.35              ANC:  134.1         DOC:  4.27
Closed DIC:  1.44   Equil. DIC:  1.40    Meas. Cond:  32.8   Cal. Cond:  31.9
Ca:  168.6            Mg:   50.8        Na:   27.7         K:  12.7       NH4:   6.0
SO4:  102.8         HCO3:  122.4        Cl:   32.4       NO3:   1.1         F:   1.7
Sum Cations:  266.0  Sum Anions:  260.5  Cations/Anions: 1.02   Tot. P:  12.9
Tot. Al:   59.8    Ext. Al:   2.9     Fe:  112.0       Mn:  162.0     SiO2:  0.27

ID: 1B1-029   Name: NO NAME(WILSON CREEK DAM)          State: PA  Date: 31OCT84
Sample Type: REGULAR            Latitude: 41-17'30"N   Longitude: 75-14'20"W
Elevation:  521   Surface Temp: 13.6  Stratified: MIXED      Site Depth:   3.0
Lake Area:        4 Watershed Area:     453 WA/LA:    105.3 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  1.9   Turbidity:    1.0      Color:   45
Closed pH: 6.68        Equil. pH: 7.37              ANC:  177.6         DOC:  5.37
Closed DIC:  2.88   Equil. DIC:  1.95    Meas. Cond:  60.3   Cal. Cond:  65.7
Ca:  323.3            Mg:   84.5        Na:  114.8         K:  12.5       NH4:   2.3
SO4:  189.5         HCO3:  170.7        Cl:  159.0       NO3:   0.6         F:   2.3
Sum Cations:  537.5  Sum Anions:  522.2  Cations/Anions: 1.03   Tot. P:  14.1
Tot. Al:   70.4    Ext. Al:  10.3     Fe:  165.0       Mn:   70.0     SiO2:  0.83

ID: 1B1-030   Name: LAKE EARNEST                       State: PA  Date: 31OCT84
Sample Type: REGULAR            Latitude: 41-17'20"N   Longitude: 75-09'35"W
Elevation:  572   Surface Temp: 13.2  Stratified: MIXED      Site Depth:   2.4
Lake Area:       13 Watershed Area:      39 WA/LA:      3.0 Hydro Type: DRAINAGE
Residence Time:  0.61  Secchi Depth:  2.4   Turbidity:    0.2      Color:    5
Closed pH: 4.49        Equil. pH: 4.47              ANC:  -32.9         DOC:  0.43
Closed DIC:  0.20   Equil. DIC:  0.12    Meas. Cond:  36.5   Cal. Cond:  37.3
Ca:   60.2            Mg:   39.9        Na:   17.6         K:   7.6       NH4:  10.8
SO4:  169.8         HCO3:    0.3        Cl:   20.8       NO3:  10.8         F:   2.1
Sum Cations:  174.0  Sum Anions:  203.9  Cations/Anions: 0.85   Tot. P:   5.5
Tot. Al:  282.2    Ext. Al:  86.5     Fe:   20.0       Mn:  108.0     SiO2:  0.07
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B1-031   Name: HEMLOCK LAKE                        State: PA  Date: 31OCT84
Sample Type: REGULAR            Latitude: 41-18'15"N    Longitude: 75-02'50"W
Elevation:  439   Surface Temp: 14.4  Stratified: MIXED      Site Depth:    4.3
Lake Area:      43 Watershed Area:    311 WA/LA:     7.3 Hydro Type: DRAINAGE
Residence Time:  0.48  Secchi Depth:  1.6   Turbidity:   1.2      Color:    15
Closed pH: 7.00         Equil. pH: 7.58              ANC:  265.8       DOC:  3.06
Closed DIC:  3.80   Equil. DIC:  3.08    Meas. Cond:  76.6   Cal. Cond:  81.9
Ca:  272.1          Mg:   152.2        Na:  233.8         K:  19.9       NH4:   1.3
SO4:   161.9       HCO3:  278.0       Cl:  246.9       NO3:   0.1         F:   2.3
Sum Cations:  679.4  Sum Anions:  689.5  Cations/Anions: 0.99   Tot. P:  25.8
Tot. Al:    33.6    Ext. Al:   0.0     Fe:     0.0     Mn:  102.0    SiO2:  0.61

ID: 1B1-032   Name: (NO NAME)                           State: PA  Date: 31OCT84
Sample Type: REGULAR            Latitude: 41-18'25"N    Longitude: 74-59'15"W
Elevation:  421   Surface Temp: 14.6  Stratified: MIXED      Site Depth:    1.8
Lake Area:       8 Watershed Area:     41 WA/LA:     5.0 Hydro Type: RESERVOIR
Residence Time:  0.28  Secchi Depth:  1.5   Turbidity:   1.8      Color:    25
Closed pH: 6.41         Equil. pH: 6.99              ANC:   74.0       DOC:  4.02
Closed DIC:  1.59   Equil. DIC:  0.80    Meas. Cond:  33.3   Cal. Cond:  31.5
Ca:  108.4          Mg:    76.3        Na:   61.1         K:  10.4       NH4:   0.8
SO4:   143.1       HCO3:   66.0       Cl:   31.9       NO3:   0.1         F:   2.7
Sum Cations:  257.5  Sum Anions:  243.8  Cations/Anions: 1.06   Tot. P:  25.9
Tot. Al:    68.6    Ext. Al:   2.1     Fe:   164.0     Mn:  153.0    SiO2:  1.54

ID: 1B1-033   Name: LOG TAVERN POND                     State: PA  Date: 15NOV84
Sample Type: REGULAR            Latitude: 41-18'40"N    Longitude: 74-55'45"W
Elevation:  397   Surface Temp:  7.5  Stratified: MIXED      Site Depth:   18.9
Lake Area:      30 Watershed Area:    210 WA/LA:     7.0 Hydro Type: DRAINAGE
Residence Time:  2.17  Secchi Depth:  4.5   Turbidity:   0.5      Color:    10
Closed pH: 6.05         Equil. pH: 6.69              ANC:   22.9       DOC:  2.40
Closed DIC:  1.02   Equil. DIC:  0.39    Meas. Cond:  41.0   Cal. Cond:  41.5
Ca:  115.3          Mg:    70.7        Na:  121.4         K:   9.2       NH4:   0.6
SO4:   153.9       HCO3:   27.4       Cl:  132.3       NO3:   0.6         F:   2.8
Sum Cations:  317.8  Sum Anions:  317.1  Cations/Anions: 1.00   Tot. P:   6.0
Tot. Al:    35.0    Ext. Al:  10.0     Fe:    10.0     Mn:   60.0    SiO2:  0.71

ID: 1B1-034   Name: GOULDSBORO LAKE                     State: PA  Date: 07NOV84
Sample Type: REGULAR            Latitude: 41-14'00"N    Longitude: 75-27'15"W
Elevation:  577   Surface Temp:  7.0  Stratified: MIXED      Site Depth:    1.5
Lake Area:     107 Watershed Area:   1015 WA/LA:     9.5 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  1.5   Turbidity:   1.1      Color:    20
Closed pH: 6.96         Equil. pH: 7.18              ANC:  118.0       DOC:  5.22
Closed DIC:  1.30   Equil. DIC:  1.09    Meas. Cond:  40.8   Cal. Cond:  40.8
Ca:  174.5          Mg:    50.7        Na:   96.9         K:  13.9       NH4:   1.2
SO4:   110.5       HCO3:   97.8       Cl:  110.1       NO3:   0.1         F:   2.6
Sum Cations:  337.4  Sum Anions:  321.2  Cations/Anions: 1.05   Tot. P:  12.9
Tot. Al:    38.1    Ext. Al:   1.3     Fe:    38.0     Mn:    4.0    SiO2:  0.34

ID: 1B1-036   Name: LAKE JAMIE                          State: PA  Date: 07NOV84
Sample Type: REGULAR            Latitude: 41-14'30"N    Longitude: 75-17'15"W
Elevation:  568   Surface Temp:  7.8  Stratified: MIXED      Site Depth:    1.5
Lake Area:      17 Watershed Area:    212 WA/LA:    12.8 Hydro Type: RESERVOIR
Residence Time:  0.10  Secchi Depth:  1.5   Turbidity:   1.2      Color:    30
Closed pH: 6.82         Equil. pH: 7.34              ANC:  145.6       DOC:  4.31
Closed DIC:  2.06   Equil. DIC:  1.60    Meas. Cond:  37.5   Cal. Cond:  37.1
Ca:  211.9          Mg:    50.7        Na:   32.5         K:   8.8       NH4:   4.3
SO4:   127.9       HCO3:  126.3       Cl:   39.2       NO3:   2.6         F:   1.9
Sum Cations:  308.3  Sum Anions:  298.1  Cations/Anions: 1.03   Tot. P:  11.7
Tot. Al:    46.8    Ext. Al:   3.5     Fe:    50.0     Mn:    9.0    SiO2:  0.33
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B1-037   Name: GRAVEL POND                    State: PA  Date: 31OCT84
Sample Type: REGULAR           Latitude: 41-13'40"N    Longitude: 75-15'20"W
Elevation:  463   Surface Temp: 14.1  Stratified: MIXED     Site Depth:   2.7
Lake Area:      9 Watershed Area:     91 WA/LA:    10.5 Hydro Type: DRAINAGE
Residence Time:  0.22  Secchi Depth:  2.7   Turbidity:   1.5     Color:   20
Closed pH: 6.54      Equil. pH: 7.23            ANC:  121.2       DOC:  4.92
Closed DIC:  2.00  Equil. DIC:  1.31   Meas. Cond:  34.9  Cal. Cond:  37.8
Ca:  184.4        Mg:   80.3      Na:   29.9        K:  10.5      NH4:   1.9
SO4:  161.2      HCO3:  111.1      Cl:   28.2      NO3:   0.3        F:   1.7
Sum Cations:  307.3  Sum Anions:  302.5  Cations/Anions: 1.02  Tot. P:  18.7
Tot. Al:   45.6   Ext. Al:   3.0    Fe:   20.0      Mn:    6.0   SiO2:  0.46

ID: 1B1-038   Name: GOOSE POND                     State: PA  Date: 31OCT84
Sample Type: REGULAR           Latitude: 41-15'10"N    Longitude: 75-11'40"W
Elevation:  448   Surface Temp: 13.0  Stratified: MIXED     Site Depth:   0.9
Lake Area:      4 Watershed Area:    510 WA/LA:   127.5 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  0.4   Turbidity:   0.6     Color:  250
Closed pH: 5.67      Equil. pH: 6.24            ANC:   52.9       DOC: 16.40
Closed DIC:  2.13  Equil. DIC:  0.24   Meas. Cond:  23.1  Cal. Cond:  23.4
Ca:   82.6        Mg:   68.4      Na:   41.2        K:  11.7      NH4:  22.8
SO4:   62.6      HCO3:   26.7      Cl:   39.7      NO3:   2.0        F:   3.0
Sum Cations:  228.8  Sum Anions:  133.9  Cations/Anions: 1.71  Tot. P:  27.5
Tot. Al:  200.2   Ext. Al:  18.9    Fe:  704.0      Mn:   78.0   SiO2:  1.05

ID: 1B1-039   Name: PORTERS LAKE                   State: PA  Date: 15NOV84
Sample Type: REGULAR           Latitude: 41-15'05"N    Longitude: 75-03'30"W
Elevation:  401   Surface Temp:  5.6  Stratified: MIXED     Site Depth:   4.3
Lake Area:     97 Watershed Area:    647 WA/LA:     6.7 Hydro Type: DRAINAGE
Residence Time:  0.53  Secchi Depth:  1.9   Turbidity:   0.7     Color:   20
Closed pH: 6.52      Equil. pH: 6.77            ANC:   51.3       DOC:  2.30
Closed DIC:  0.88  Equil. DIC:  0.58   Meas. Cond:  31.6  Cal. Cond:  31.5
Ca:  118.3        Mg:   67.5      Na:   66.6        K:   6.4      NH4:   0.6
SO4:  140.5      HCO3:   39.7      Cl:   45.7      NO3:   2.8        F:   2.8
Sum Cations:  259.6  Sum Anions:  231.5  Cations/Anions: 1.12  Tot. P:  15.0
Tot. Al:   47.0   Ext. Al:   5.0    Fe:   30.0      Mn:    0.0   SiO2:  2.43

ID: 1B1-040   Name: MARCEL LAKE                    State: PA  Date: 31OCT84
Sample Type: REGULAR           Latitude: 41-15'20"N    Longitude: 74-57'15"W
Elevation:  375   Surface Temp: 14.4  Stratified: MIXED     Site Depth:   0.9
Lake Area:     11 Watershed Area:   1075 WA/LA:   100.5 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  0.9   Turbidity:  11.1     Color:  113
Closed pH: 6.34      Equil. pH: 6.77            ANC:   64.7       DOC:  9.37
Closed DIC:  0.89  Equil. DIC:  0.32   Meas. Cond:  24.9  Cal. Cond:  25.6
Ca:  102.8        Mg:   60.9      Na:   61.2        K:   8.8      NH4:   1.4
SO4:  108.2      HCO3:   32.6      Cl:   25.3      NO3:   0.9        F:   2.7
Sum Cations:  235.8  Sum Anions:  169.6  Cations/Anions: 1.39  Tot. P:  43.9
Tot. Al:  192.0   Ext. Al:  16.1    Fe:  284.0      Mn:   49.0   SiO2:  2.07

ID: 1B1-041   Name: BRADYS LAKE                    State: PA  Date: 01NOV84
Sample Type: REGULAR           Latitude: 41-10'00"N    Longitude: 75-31'45"W
Elevation:  523   Surface Temp: 13.4  Stratified: MIXED     Site Depth:   3.7
Lake Area:     90 Watershed Area:   1751 WA/LA:    19.5 Hydro Type: RESERVOIR
Residence Time:  0.17  Secchi Depth:  1.5   Turbidity:   1.0     Color:   60
Closed pH: 5.72      Equil. pH: 6.16            ANC:   24.5       DOC:  5.71
Closed DIC:  0.81  Equil. DIC:  0.25   Meas. Cond:  24.0  Cal. Cond:  24.1
Ca:  117.0        Mg:   42.3      Na:   23.9        K:   5.5      NH4:   3.2
SO4:  122.2      HCO3:   13.0      Cl:   23.8      NO3:   1.7        F:   2.5
Sum Cations:  193.8  Sum Anions:  163.2  Cations/Anions: 1.19  Tot. P:  16.5
Tot. Al:  155.1   Ext. Al: 110.6    Fe:  409.0      Mn:   44.0   SiO2:  0.45
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B1-042   Name: WILKINSON LAKE                     State: PA  Date: 16NOV84
Sample Type: REGULAR            Latitude: 41-11'20"N    Longitude: 75-10'05"W
Elevation:  346   Surface Temp:  3.9  Stratified: MIXED      Site Depth:    1.8
Lake Area:      9 Watershed Area:    342 WA/LA:     38.0 Hydro Type: RESERVOIR
Residence Time:  0.04  Secchi Depth:  1.8  Turbidity:   1.2      Color:    30
Closed pH: 5.73       Equil. pH: 5.91             ANC:     3.7        DOC:  3.70
Closed DIC:  0.41  Equil. DIC:  0.21   Meas. Cond:  25.5  Cal. Cond:  26.1
Ca:   73.9         Mg:    65.0      Na:    51.8          K:    5.4      NH4:   0.0
SO4:  143.7       HCO3:     5.1      Cl:   33.0        NO3:    0.5        F:   2.9
Sum Cations:  198.5  Sum Anions:  185.2  Cations/Anions: 1.07  Tot. P:  14.0
Tot. Al:  143.0   Ext. Al:  25.0   Fe:   80.0     Mn:    20.0   SiO2:  0.85

ID: 1B1-043   Name: PENN LAKE                          State: PA  Date: 01NOV84
Sample Type: REGULAR            Latitude: 41-06'45"N    Longitude: 75-46'10"W
Elevation:  406   Surface Temp: 13.7  Stratified: MIXED      Site Depth:    4.3
Lake Area:     22 Watershed Area:   1805 WA/LA:     82.0 Hydro Type: RESERVOIR
Residence Time:  0.05  Secchi Depth:  4.3  Turbidity:   0.4      Color:     5
Closed pH: 5.83       Equil. pH: 6.23             ANC:    18.5        DOC:  1.80
Closed DIC:  0.63  Equil. DIC:  0.22   Meas. Cond:  97.7  Cal. Cond: 104.8
Ca:  110.7         Mg:    68.3      Na:   617.3          K:   11.2      NH4:   0.9
SO4:  101.8       HCO3:    15.3      Cl:  698.8        NO3:    0.2        F:   1.9
Sum Cations:  809.8  Sum Anions:  818.1  Cations/Anions: 0.99  Tot. P:   5.6
Tot. Al:   64.5   Ext. Al:  12.7   Fe:   50.0     Mn:    32.0   SiO2:  0.47

ID: 1B1-044   Name: NO NAME(EAST LAKE)                 State: PA  Date: 01NOV84
Sample Type: REGULAR            Latitude: 41-08'30"N    Longitude: 75-32'30"W
Elevation:  533   Surface Temp: 13.0  Stratified: MIXED      Site Depth:    1.5
Lake Area:     21 Watershed Area:     67 WA/LA:      3.2 Hydro Type: RESERVOIR
Residence Time:  0.38  Secchi Depth:  0.8  Turbidity:   2.5      Color:    35
Closed pH: 5.98       Equil. pH: 6.54             ANC:    30.8        DOC:  5.36
Closed DIC:  0.94  Equil. DIC:  0.34   Meas. Cond:  27.1  Cal. Cond:  28.0
Ca:  106.8         Mg:    41.6      Na:    37.4          K:   16.0      NH4:   8.9
SO4:   98.9       HCO3:    21.9      Cl:   77.0        NO3:    3.2        F:   3.1
Sum Cations:  212.2  Sum Anions:  204.1  Cations/Anions: 1.04  Tot. P:  27.7
Tot. Al:  318.6   Ext. Al:  11.8   Fe:   69.0     Mn:   237.0   SiO2:  0.14

ID: 1B1-046   Name: POCONO SUMMIT LAKE                 State: PA  Date: 06NOV84
Sample Type: REGULAR            Latitude: 41-07'15"N    Longitude: 75-23'10"W
Elevation:  556   Surface Temp:  9.1  Stratified: MIXED      Site Depth:    0.9
Lake Area:     25 Watershed Area:    681 WA/LA:     27.0 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  3.0  Turbidity:   1.0      Color:    20
Closed pH: 7.00       Equil. pH: 7.24             ANC:   114.7        DOC:  6.62
Closed DIC:  1.42  Equil. DIC:  1.21   Meas. Cond:  87.8  Cal. Cond:  91.8
Ca:  255.4         Mg:    80.2      Na:   384.1          K:   13.7      NH4:   1.1
SO4:  105.5       HCO3:    69.2      Cl:  526.8        NO3:    0.3        F:   3.0
Sum Cations:  734.8  Sum Anions:  704.8  Cations/Anions: 1.04  Tot. P:  10.3
Tot. Al:   46.0   Ext. Al:   8.3   Fe:  105.0     Mn:    11.0   SiO2:  0.12

ID: 1B1-048   Name: PLACID LAKE                        State: PA  Date: 01NOV84
Sample Type: REGULAR            Latitude: 41-01'40"N    Longitude: 75-36'45"W
Elevation:  508   Surface Temp: 12.9  Stratified: MIXED      Site Depth:    0.9
Lake Area:     11 Watershed Area:    280 WA/LA:     24.6 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  0.9  Turbidity:   1.4      Color:     5
Closed pH: 5.56       Equil. pH: 5.42             ANC:     3.2        DOC:  2.42
Closed DIC:  0.29  Equil. DIC:  0.15   Meas. Cond:  17.3  Cal. Cond:  17.4
Ca:   52.3         Mg:    26.4      Na:    24.6          K:    5.7      NH4:   1.0
SO4:   93.5       HCO3:     3.5      Cl:   24.2        NO3:    0.6        F:   1.2
Sum Cations:  114.5  Sum Anions:  123.1  Cations/Anions: 0.93  Tot. P:   7.7
Tot. Al:  114.0   Ext. Al:  27.2   Fe:   17.0     Mn:    40.0   SiO2:  0.04
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B1-050   Name: INDIAN MOUNTAIN LAKE                State: PA  Date: 15NOV84
Sample Type: REGULAR             Latitude: 41-00'19"N    Longitude: 75-30'20"W
Elevation:  546   Surface Temp:  2.1  Stratified: MIXED      Site Depth:   1.5
Lake Area:      17 Watershed Area:     743 WA/LA:     44.2 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  1.5   Turbidity:   2.9      Color:   30
Closed pH: 6.43        Equil. pH: 6.77               ANC:   23.7         DOC:  3.60
Closed DIC:  0.61   Equil. DIC:  0.52    Meas. Cond:  21.2   Cal. Cond:  21.5
Ca:   54.4            Mg:    43.6       Na:    62.6          K:    9.7       NH4:  0.6
SO4:    38.1        HCO3:    20.9       Cl:    92.2        NO3:   10.4         F:  1.0
Sum Cations:  171.5  Sum Anions:  162.7  Cations/Anions: 1.05   Tot. P:   8.0
Tot. Al:     0.0    Ext. Al:    6.0    Fe:   120.0       Mn:     0.0     SiO2:  0.36

ID: 1B1-055   Name: ROCK HILL POND                      State: PA  Date: 31OCT84
Sample Type: REGULAR             Latitude: 41-18'49"N    Longitude: 75-00'58"W
Elevation:  430   Surface Temp: 14.5  Stratified: MIXED      Site Depth:   3.0
Lake Area:       6 Watershed Area:     199 WA/LA:     33.2 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  0.8   Turbidity:   1.4      Color:   80
Closed pH: 6.33        Equil. pH: 6.88               ANC:   70.6         DOC:  8.39
Closed DIC:  1.18   Equil. DIC:  0.59    Meas. Cond:  27.7   Cal. Cond:  28.9
Ca:  104.5            Mg:    77.2       Na:    56.2          K:    9.5       NH4:  0.8
SO4:   121.9        HCO3:    62.6       Cl:    27.6        NO3:    0.9         F:  2.7
Sum Cations:  248.8  Sum Anions:  215.6  Cations/Anions: 1.15   Tot. P:  27.6
Tot. Al:   109.1    Ext. Al:   16.9    Fe:   123.0       Mn:    15.0     SiO2:  3.42

ID: 1B1-057   Name: SACKETT LAKE                        State: NY  Date: 10NOV84
Sample Type: REGULAR             Latitude: 41-37'33"N    Longitude: 74-44'25"W
Elevation:  405   Surface Temp: 10.2  Stratified: MIXED      Site Depth:   8.5
Lake Area:      51 Watershed Area:     471 WA/LA:      9.3 Hydro Type: DRAINAGE
Residence Time:  0.64  Secchi Depth:  1.8   Turbidity:   2.5      Color:   20
Closed pH: 6.73        Equil. pH: 7.39               ANC:  260.7         DOC:  3.20
Closed DIC:  4.47   Equil. DIC:  2.85    Meas. Cond:  69.4   Cal. Cond:  85.1
Ca:  305.9            Mg:    97.9       Na:   150.5          K:   22.5       NH4: 15.5
SO4:   270.9        HCO3:   244.4       Cl:   243.7        NO3:    0.4         F:  2.8
Sum Cations:  592.4  Sum Anions:  762.4  Cations/Anions: 0.78   Tot. P:  39.0
Tot. Al:    11.0    Ext. Al:    2.0    Fe:    20.0       Mn:   220.0     SiO2:  0.83

ID: 1B1-058   Name: NO NAME(LAKE SINCA)                 State: PA  Date: 01NOV84
Sample Type: REGULAR             Latitude: 41-06'04"N    Longitude: 75-35'47"W
Elevation:  494   Surface Temp: 13.2  Stratified: MIXED      Site Depth:   2.4
Lake Area:       8 Watershed Area:     114 WA/LA:     13.7 Hydro Type: RESERVOIR
Residence Time:  0.16  Secchi Depth:  1.9   Turbidity:   1.9      Color:   20
Closed pH: 5.31        Equil. pH: 5.54               ANC:    5.6         DOC:  2.11
Closed DIC:  0.81   Equil. DIC:  0.16    Meas. Cond:  29.0   Cal. Cond:  30.9
Ca:   69.7            Mg:    51.6       Na:    84.1          K:   12.3       NH4:  1.7
SO4:   119.1        HCO3:     6.1       Cl:    97.5        NO3:    0.4         F:  2.6
Sum Cations:  223.2  Sum Anions:  225.8  Cations/Anions: 0.99   Tot. P:   8.0
Tot. Al:    86.7    Ext. Al:   39.7    Fe:    97.0       Mn:    47.0     SiO2:  0.14

ID: 1B1-059   Name: NO NAME(LAKE IN THE WOODS)          State: PA  Date: 31OCT84
Sample Type: REGULAR             Latitude: 41-15'23"N    Longitude: 75-15'29"W
Elevation:  537   Surface Temp: 13.8  Stratified: MIXED      Site Depth:   1.5
Lake Area:       4 Watershed Area:      34 WA/LA:      7.7 Hydro Type: DRAINAGE
Residence Time:  0.17  Secchi Depth:  1.1   Turbidity:   7.5      Color:   30
Closed pH: 6.81        Equil. pH: 7.41               ANC:  179.4         DOC:  5.26
Closed DIC:  2.47   Equil. DIC:  1.91    Meas. Cond:  37.3   Cal. Cond:  40.6
Ca:  228.4            Mg:    61.4       Na:    33.6          K:   11.3       NH4:  0.8
SO4:   121.0        HCO3:   179.1       Cl:    42.7        NO3:    0.9         F:  2.1
Sum Cations:  335.7  Sum Anions:  345.9  Cations/Anions: 0.97   Tot. P:  30.5
Tot. Al:   216.6    Ext. Al:    1.9    Fe:    39.0       Mn:     7.0     SiO2:  0.11
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B1-061   Name: (NO NAME)                          State: NY  Date: 15NOV84
Sample Type: REGULAR            Latitude: 41-59'03"N    Longitude: 74-30'43"W
Elevation:  596   Surface Temp:  3.5  Stratified: MIXED      Site Depth:   3.7
Lake Area:       6 Watershed Area:     155 WA/LA:     25.0 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  1.1   Turbidity:   3.3      Color:   20
Closed pH: 6.75        Equil. pH: 7.15              ANC:    66.3        DOC:  2.80
Closed DIC:  1.08   Equil. DIC:  0.89    Meas. Cond:  30.9   Cal. Cond:  31.0
Ca:  136.7          Mg:    59.2       Na:    44.4          K:    9.2       NH4:  0.6
SO4:  136.8       HCO3:    54.6       Cl:    42.0        NO3:    0.6         F:  1.3
Sum Cations:  250.4  Sum Anions:  235.3  Cations/Anions: 1.06   Tot. P:  10.0
Tot. Al:  120.0    Ext. Al:   8.0    Fe:     0.0      Mn:    0.0    SiO2:  1.82

ID: 1B1-062   Name: LAKE METAUQUE                      State: NY  Date: 10NOV84
Sample Type: REGULAR            Latitude: 41-31'02"N    Longitude: 74-47'03"W
Elevation:  387   Surface Temp:  9.5  Stratified: MIXED      Site Depth:   6.7
Lake Area:      30 Watershed Area:     430 WA/LA:     14.6 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  2.3   Turbidity:   0.8      Color:   35
Closed pH: 6.47        Equil. pH: 7.32              ANC:    58.0        DOC:  4.30
Closed DIC:  1.16   Equil. DIC:  0.71    Meas. Cond:  38.2   Cal. Cond:  37.5
Ca:  141.2          Mg:    65.0       Na:    86.1          K:   10.7       NH4:  5.0
SO4:  143.7       HCO3:    48.3       Cl:    77.6        NO3:    3.8         F:  2.7
Sum Cations:  308.5  Sum Anions:  276.1  Cations/Anions: 1.12   Tot. P:  22.0
Tot. Al:   38.0    Ext. Al:   9.0    Fe:   140.0      Mn:   30.0    SiO2:  3.05

ID: 1B1-063   Name: SCHMITTHENNER LAKE                 State: PA  Date: 12NOV84
Sample Type: REGULAR            Latitude: 41-26'15"N    Longitude: 76-14'38"W
Elevation:  614   Surface Temp:  7.5  Stratified: MIXED      Site Depth:   8.5
Lake Area:       9 Watershed Area:     106 WA/LA:     11.4 Hydro Type: DRAINAGE
Residence Time:  0.85  Secchi Depth:  3.3   Turbidity:   0.9      Color:   20
Closed pH: 5.24        Equil. pH: 5.44              ANC:    -1.2        DOC:  2.70
Closed DIC:  0.97   Equil. DIC:  0.20    Meas. Cond:  21.9   Cal. Cond:  24.7
Ca:   71.9          Mg:    32.1       Na:    22.6          K:   10.5       NH4:  1.7
SO4:  114.9       HCO3:     4.5       Cl:    66.0        NO3:    0.4         F:  2.2
Sum Cations:  144.9  Sum Anions:  188.0  Cations/Anions: 0.77   Tot. P:   6.0
Tot. Al:   97.0    Ext. Al:  49.0    Fe:   120.0      Mn:  110.0    SiO2:  0.21

ID: 1B1-064   Name: MILLPOND NO. 1                     State: PA  Date: 07NOV84
Sample Type: REGULAR            Latitude: 41-10'47"N    Longitude: 75-24'39"W
Elevation:  579   Surface Temp:  7.2  Stratified: MIXED      Site Depth:   1.8
Lake Area:      15 Watershed Area:    4387 WA/LA:    294.4 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  1.4   Turbidity:   1.5      Color:   50
Closed pH: 6.46        Equil. pH: 6.95              ANC:    71.8        DOC:  4.54
Closed DIC:  1.25   Equil. DIC:  0.72    Meas. Cond:  36.0   Cal. Cond:  37.2
Ca:  150.8          Mg:    54.2       Na:    75.2          K:   12.2       NH4:  3.0
SO4:  122.4       HCO3:    55.6       Cl:    93.8        NO3:   11.1         F:  1.9
Sum Cations:  295.9  Sum Anions:  284.8  Cations/Anions: 1.04   Tot. P:  15.2
Tot. Al:  172.4    Ext. Al:  17.6    Fe:   167.0      Mn:   39.0    SiO2:  2.40

ID: 1B1-066   Name: LOWER LAKE (WEST)                  State: PA  Date: 31OCT84
Sample Type: REGULAR            Latitude: 41-18'52"N    Longitude: 75-13'53"W
Elevation:  523   Surface Temp: 13.8  Stratified: MIXED      Site Depth:   2.4
Lake Area:      11 Watershed Area:    2618 WA/LA:    240.2 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.8   Turbidity:   1.0      Color:   25
Closed pH: 6.34        Equil. pH: 6.95              ANC:    69.8        DOC:  5.12
Closed DIC:  1.28   Equil. DIC:  0.72    Meas. Cond:  33.4   Cal. Cond:  34.3
Ca:  159.2          Mg:    55.4       Na:    55.3          K:    7.6       NH4:  1.0
SO4:  134.3       HCO3:    53.1       Cl:    67.0        NO3:    0.2         F:  2.4
Sum Cations:  279.0  Sum Anions:  257.0  Cations/Anions: 1.09   Tot. P:  17.7
Tot. Al:   38.1    Ext. Al:   3.9    Fe:    38.0      Mn:   44.0    SiO2:  0.24
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B1-067   Name: LAKE MINISINK                 State: PA  Date: 15NOV84
Sample Type: REGULAR        Latitude: 41-12'57"N   Longitude: 75-03'13"W
Elevation:  409   Surface Temp:  5.3  Stratified: MIXED     Site Depth:   3.4
Lake Area:      14 Watershed Area:      49 WA/LA:      3.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.2   Turbidity:   0.8     Color:   20
Closed pH: 6.93      Equil. pH: 7.25              ANC:  101.4        DOC:  4.40
Closed DIC:  1.52   Equil. DIC:  1.23   Meas. Cond:  36.2   Cal. Cond:  35.8
Ca:  171.7          Mg:   61.7       Na:   62.6        K:  11.0      NH4:  0.6
SO4:  111.4       HCO3:   84.6       Cl:   72.2      NO3:   0.0        F:  2.2
Sum Cations:  307.7  Sum Anions:  270.5  Cations/Anions: 1.14  Tot. P:   6.0
Tot. Al:   19.0   Ext. Al:   1.0   Fe:   10.0     Mn:    0.0   SiO2:  0.07


ID: 1B1-068   Name: SUNRISE LAKE                  State: PA  Date: 31OCT84
Sample Type: REGULAR        Latitude: 41-19'10"N   Longitude: 74-57'37"W
Elevation:  396   Surface Temp: 14.2  Stratified: MIXED     Site Depth:   1.5
Lake Area:      25 Watershed Area:    1168 WA/LA:     46.2 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  0.5   Turbidity:   4.6     Color:   75
Closed pH: 6.50      Equil. pH: 7.28              ANC:  150.3        DOC:  8.05
Closed DIC:  2.84   Equil. DIC:  1.28   Meas. Cond:  32.6   Cal. Cond:  32.0
Ca:  125.7          Mg:   80.2       Na:   71.7        K:  10.7      NH4:  1.0
SO4:   87.0       HCO3:  131.0       Cl:   35.3      NO3:   0.5        F:  2.8
Sum Cations:  289.8  Sum Anions:  256.5  Cations/Anions: 1.13  Tot. P:  64.5
Tot. Al:   67.6   Ext. Al:   1.9   Fe:   97.0     Mn:   46.0   SiO2:  3.21


ID: 1B1-069   Name: NO NAME(STAIRWAY LAKE)        State: PA  Date: 10NOV84
Sample Type: REGULAR        Latitude: 41-24'45"N   Longitude: 74-47'59"W
Elevation:  357   Surface Temp:  8.2  Stratified: MIXED     Site Depth:   1.8
Lake Area:       5 Watershed Area:     117 WA/LA:     23.4 Hydro Type: RESERVOIR
Residence Time:  0.07  Secchi Depth:  1.8   Turbidity:   1.3     Color:   25
Closed pH: 6.98      Equil. pH: 7.31              ANC:  111.5        DOC:  5.20
Closed DIC:  1.38   Equil. DIC:  1.22   Meas. Cond:  34.5   Cal. Cond:  34.1
Ca:  156.7          Mg:   74.0       Na:   46.5        K:  12.8      NH4:  1.7
SO4:  132.2       HCO3:   83.1       Cl:   39.2      NO3:   0.0        F:  2.3
Sum Cations:  291.9  Sum Anions:  256.9  Cations/Anions: 1.14  Tot. P:  27.0
Tot. Al:   33.0   Ext. Al:   4.0   Fe:   50.0     Mn:    0.0   SiO2:  0.00


ID: 1B1-070   Name: NO NAME(FOREST LAKE)          State: PA  Date: 03NOV84
Sample Type: REGULAR        Latitude: 41-30'47"N   Longitude: 75-04'17"W
Elevation:  375   Surface Temp: 11.2  Stratified: MIXED     Site Depth:   1.8
Lake Area:      17 Watershed Area:     290 WA/LA:     17.2 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  2.0   Turbidity:   2.0     Color:   20
Closed pH: 6.50      Equil. pH: 7.17              ANC:  105.3        DOC:  4.79
Closed DIC:  1.75   Equil. DIC:  1.13   Meas. Cond:  36.6   Cal. Cond:  37.1
Ca:  115.3          Mg:   81.7       Na:   79.1        K:  15.6      NH4:  6.9
SO4:  125.4       HCO3:   95.5       Cl:   70.7      NO3:   4.4        F:  3.0
Sum Cations:  298.9  Sum Anions:  299.0  Cations/Anions: 1.00  Tot. P:  12.1
Tot. Al:   28.6   Ext. Al:   3.1   Fe:   45.0     Mn:  198.0   SiO2:  0.94


ID: 1B2-001   Name: ORSON POND                    State: PA  Date: 03NOV84
Sample Type: REGULAR        Latitude: 41-48'45"N   Longitude: 75-26'40"W
Elevation:  613   Surface Temp:  9.6  Stratified: MIXED     Site Depth:   2.1
Lake Area:       8 Watershed Area:     350 WA/LA:     44.3 Hydro Type: RESERVOIR
Residence Time:  0.04  Secchi Depth:  1.5   Turbidity:   2.4     Color:   40
Closed pH: 6.99      Equil. pH: 7.34              ANC:  161.3        DOC:  6.12
Closed DIC:  2.03   Equil. DIC:  1.59   Meas. Cond:  57.2   Cal. Cond:  57.6
Ca:  249.3          Mg:   70.6       Na:  127.3        K:  22.9      NH4:  1.6
SO4:  140.1       HCO3:  136.1       Cl:  175.9      NO3:   0.2        F:  2.3
Sum Cations:  471.9  Sum Anions:  454.7  Cations/Anions: 1.04  Tot. P:  18.6
Tot. Al:   96.0   Ext. Al:   6.4   Fe:   42.0     Mn:    6.0   SiO2:  0.86
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B2-002   Name: POYNTELLE LAKE                     State: PA  Date: 03NOV84
Sample Type: REGULAR              Latitude: 41-49'17"N    Longitude: 75-24'38"W
Elevation:  609   Surface Temp: 11.3  Stratified: MIXED     Site Depth:   7.0
Lake Area:      29 Watershed Area:    225 WA/LA:      7.9 Hydro Type: DRAINAGE
Residence Time:  0.77  Secchi Depth:  3.0   Turbidity:   1.7     Color:   15
Closed pH: 6.98        Equil. pH: 7.56             ANC:  233.7        DOC:  2.41
Closed DIC:  3.21   Equil. DIC:  2.52    Meas. Cond:  64.4   Cal. Cond:  67.9
Ca:  310.5          Mg:    62.8        Na:   133.2       K:  25.7       NH4: 15.5
SO4:  159.9       HCO3:  214.5       Cl:   170.4       NO3:  12.1          F:  1.8
Sum Cations:  547.9  Sum Anions:  558.9  Cations/Anions: 0.98   Tot. P:  13.6
Tot. Al:   24.4    Ext. Al:   2.0    Fe:    16.0      Mn:  220.0     SiO2:  1.34

ID: 1B2-005   Name: ROCK LAKE                          State: PA  Date: 03NOV84
Sample Type: REGULAR              Latitude: 41-46'20"N    Longitude: 75-19'30"W
Elevation:  480   Surface Temp: 11.9  Stratified: WEAK      Site Depth:  13.7
Lake Area:      34 Watershed Area:    210 WA/LA:      6.2 Hydro Type: DRAINAGE
Residence Time:  1.89  Secchi Depth:  5.1   Turbidity:   0.5     Color:   10
Closed pH: 6.86        Equil. pH: 7.33             ANC:  141.5        DOC:  3.61
Closed DIC:  1.99   Equil. DIC:  1.47    Meas. Cond:  37.8   Cal. Cond:  39.4
Ca:  240.7          Mg:    43.1        Na:    29.9       K:  10.0       NH4:  1.2
SO4:  164.6       HCO3:  124.7       Cl:    20.9       NO3:   0.1          F:  1.9
Sum Cations:  325.0  Sum Anions:  312.3  Cations/Anions: 1.04   Tot. P:   5.3
Tot. Al:   26.4    Ext. Al:   2.2    Fe:    22.0      Mn:   17.0     SiO2:  0.31

ID: 1B2-006   Name: ELK LAKE                           State: PA  Date: 07NOV84
Sample Type: REGULAR              Latitude: 41-37'20"N    Longitude: 75-23'05"W
Elevation:  433   Surface Temp: 11.1  Stratified: MIXED     Site Depth:  18.3
Lake Area:      65 Watershed Area:    241 WA/LA:      3.7 Hydro Type: DRAINAGE
Residence Time:  4.07  Secchi Depth:  2.4   Turbidity:   0.8     Color:   10
Closed pH: 6.86        Equil. pH: 7.42             ANC:  184.4        DOC:  2.42
Closed DIC:  2.54   Equil. DIC:  1.92    Meas. Cond:  47.5   Cal. Cond:  50.1
Ca:  268.0          Mg:    48.3        Na:    65.4       K:  13.0       NH4:  1.8
SO4:  193.8       HCO3:  155.1       Cl:    60.7       NO3:   0.1          F:  2.5
Sum Cations:  396.6  Sum Anions:  412.3  Cations/Anions: 0.96   Tot. P:  15.8
Tot. Al:   44.6    Ext. Al:   2.2    Fe:    18.0      Mn:   55.0     SiO2:  0.27

ID: 1B2-007   Name: MUD POND                           State: PA  Date: 07NOV84
Sample Type: REGULAR              Latitude: 41-38'05"N    Longitude: 75-22'15"W
Elevation:  431   Surface Temp:  7.3  Stratified: MIXED     Site Depth:   1.2
Lake Area:       6 Watershed Area:    101 WA/LA:     16.8 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  0.5   Turbidity:   2.4     Color:  225
Closed pH: 6.37        Equil. pH: 6.79             ANC:  131.8        DOC: 20.03
Closed DIC:  0.96   Equil. DIC:  0.52    Meas. Cond:  38.7   Cal. Cond:  37.6
Ca:  266.4          Mg:    45.9        Na:    40.3       K:   5.7       NH4:  1.9
SO4:  145.9       HCO3:   60.8       Cl:    27.4       NO3:   0.0          F:  2.1
Sum Cations:  360.6  Sum Anions:  236.2  Cations/Anions: 1.53   Tot. P:  30.0
Tot. Al:  223.0    Ext. Al:  50.9    Fe:   132.0      Mn:   25.0     SiO2:  4.42

ID: 1B2-008   Name: NO NAME(SWACKHAMMER LAKE)          State: PA  Date: 07NOV84
Sample Type: REGULAR              Latitude: 41-33'15"N    Longitude: 75-26'35"W
Elevation:  521   Surface Temp:  7.4  Stratified: MIXED     Site Depth:   1.2
Lake Area:      10 Watershed Area:    150 WA/LA:     14.8 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  1.2   Turbidity:   1.1     Color:   30
Closed pH: 5.84        Equil. pH: 6.43             ANC:   24.7        DOC:  3.34
Closed DIC:  0.89   Equil. DIC:  0.29    Meas. Cond:  21.0   Cal. Cond:  22.0
Ca:   75.8          Mg:    57.6        Na:    17.5       K:  12.0       NH4:  1.4
SO4:  123.5       HCO3:   16.7       Cl:    19.1       NO3:   0.0          F:  2.3
Sum Cations:  165.5  Sum Anions:  161.7  Cations/Anions: 1.02   Tot. P:  12.3
Tot. Al:   79.5    Ext. Al:   7.1    Fe:   106.0      Mn:    9.0     SiO2:  0.29
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B2-009   Name: LAKE LODORE                        State: PA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-34'10"N    Longitude: 75-23'30"W
Elevation:  417   Surface Temp: 10.8  Stratified: MIXED      Site Depth:   4.6
Lake Area:     107 Watershed Area:     948 WA/LA:     8.8 Hydro Type: RESERVOIR
Residence Time:  0.45  Secchi Depth:  1.9   Turbidity:   3.3     Color:   20
Closed pH: 7.03        Equil. pH: 7.75              ANC:  364.3         DOC:  3.42
Closed DIC:  5.01   Equil. DIC:  4.05    Meas. Cond: 119.1   Cal. Cond: 129.0
Ca:  503.5          Mg:    90.4        Na:  415.0          K:  32.4       NH4:   1.5
SO4:  276.9        HCO3:  337.8        Cl:  434.0        NO3:    6.9          F:   2.8
Sum Cations: 1042.8  Sum Anions: 1059.0  Cations/Anions: 0.98   Tot. P:  35.7
Tot. Al:   61.4    Ext. Al:    2.7     Fe:    10.0     Mn:     7.0     SiO2:  0.45

ID: 1B2-010   Name: LITTLE KEEN POND                   State: PA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-35'45"N    Longitude: 75-22'45"W
Elevation:  394   Surface Temp:  8.4  Stratified: MIXED      Site Depth:   2.7
Lake Area:       8 Watershed Area:    1841 WA/LA:   242.2 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.0   Turbidity:   3.9     Color:   55
Closed pH: 7.36        Equil. pH: 7.85              ANC:  462.2         DOC:  6.99
Closed DIC:  5.58   Equil. DIC:  4.78    Meas. Cond: 101.3   Cal. Cond: 110.8
Ca:  579.3          Mg:   115.2        Na:  183.4          K:  51.3       NH4:   1.3
SO4:  252.9        HCO3:  377.8        Cl:  260.6        NO3:    0.0          F:   2.9
Sum Cations:  930.5  Sum Anions:  895.1  Cations/Anions: 1.04   Tot. P:  46.8
Tot. Al:  287.7    Ext. Al:    3.9     Fe:   195.0     Mn:    86.0     SiO2:  2.26

ID: 1B2-011   Name: BRONSON POND                       State: PA  Date: 16NOV84
Sample Type: REGULAR             Latitude: 41-31'30"N    Longitude: 75-26'15"W
Elevation:  428   Surface Temp:  3.2  Stratified: MIXED      Site Depth:   1.3
Lake Area:      23 Watershed Area:     616 WA/LA:    26.8 Hydro Type: RESERVOIR
Residence Time:  0.04  Secchi Depth:  1.1   Turbidity:   3.3     Color:   30
Closed pH: 7.40        Equil. pH: 7.60              ANC:  254.0         DOC:  5.90
Closed DIC:  2.79   Equil. DIC:  2.61    Meas. Cond:  49.0   Cal. Cond:  51.8
Ca:  285.9          Mg:    96.2        Na:   58.3          K:  23.8       NH4:   0.0
SO4:  159.1        HCO3:  191.1        Cl:   46.3        NO3:    0.4          F:   3.2
Sum Cations:  464.4  Sum Anions:  400.2  Cations/Anions: 1.16   Tot. P:  40.0
Tot. Al:  139.0    Ext. Al:    3.0     Fe:    90.0     Mn:    10.0     SiO2:  1.15

ID: 1B2-012   Name: TELSHAW POND                       State: PA  Date: 16NOV84
Sample Type: REGULAR             Latitude: 41-31'00"N    Longitude: 75-25'30"W
Elevation:  429   Surface Temp:  3.3  Stratified: MIXED      Site Depth:   0.9
Lake Area:      12 Watershed Area:      83 WA/LA:     6.9 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  1.5   Turbidity:   1.3     Color:   25
Closed pH: 7.33        Equil. pH: 7.76              ANC:  369.3         DOC:  5.60
Closed DIC:  4.67   Equil. DIC:  3.86    Meas. Cond:  57.1   Cal. Cond:  58.8
Ca:  358.8          Mg:    98.7        Na:   57.4          K:  29.4       NH4:   0.6
SO4:  115.8        HCO3:  305.8        Cl:   53.3        NO3:    0.6          F:   2.9
Sum Cations:  544.9  Sum Anions:  478.8  Cations/Anions: 1.14   Tot. P:  21.0
Tot. Al:   29.0    Ext. Al:    2.0     Fe:    30.0     Mn:     0.0     SiO2:  0.30

ID: 1B2-013   Name: NO NAME(ST. TIKHONS DAM)           State: PA  Date: 16NOV84
Sample Type: REGULAR             Latitude: 41-30'45"N    Longitude: 75-24'00"W
Elevation:  419   Surface Temp:  3.5  Stratified: MIXED      Site Depth:   0.9
Lake Area:       4 Watershed Area:     168 WA/LA:    42.0 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  1.0   Turbidity:   1.3     Color:   50
Closed pH: 7.55        Equil. pH: 8.00              ANC:  526.6         DOC: 11.00
Closed DIC:  6.19   Equil. DIC:  5.29    Meas. Cond:  75.3   Cal. Cond:  76.7
Ca:  433.1          Mg:   106.1        Na:  100.0          K:  30.2       NH4:  54.9
SO4:  102.6        HCO3:  421.1        Cl:   71.1        NO3:   20.4          F:   3.1
Sum Cations:  724.4  Sum Anions:  619.3  Cations/Anions: 1.17   Tot. P:  41.0
Tot. Al:   86.0    Ext. Al:    2.0     Fe:   140.0     Mn:     0.0     SiO2:  0.26
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B2-015   Name: MOOSIC LAKES (EASTERN)            State: PA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-26'10"N   Longitude: 75-30'45"W
Elevation:  619   Surface Temp:  8.5  Stratified: MIXED     Site Depth:   5.5
Lake Area:        5 Watershed Area:      16 WA/LA:     3.2 Hydro Type: DRAINAGE
Residence Time:  1.40  Secchi Depth:  1.5   Turbidity:   2.3      Color:    5
Closed pH: 5.80        Equil. pH: 5.96               ANC:   15.7        DOC:  2.92
Closed DIC:  0.41   Equil. DIC:  0.21    Meas. Cond:  36.8   Cal. Cond:  38.2
Ca:  118.8            Mg:   42.9        Na:   80.1         K:  20.0      NH4:   1.0
SO4:  196.4        HCO3:   12.6        Cl:   84.1        NO3:   0.1         F:   2.2
Sum Cations:  264.1  Sum Anions:  295.3  Cations/Anions: 0.89   Tot. P:  11.4
Tot. Al:  123.2    Ext. Al:   6.1     Fe:   38.0       Mn: 1191.0     SiO2:  0.03

ID: 1B2-016   Name: HALF MOON POND                    State: PA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-26'35"N   Longitude: 75-27'30"W
Elevation:  468   Surface Temp:  7.7  Stratified: MIXED     Site Depth:   1.5
Lake Area:        9 Watershed Area:      70 WA/LA:     8.0 Hydro Type: RESERVOIR
Residence Time:  0.16  Secchi Depth:  1.5   Turbidity:   0.9      Color:   25
Closed pH: 6.93        Equil. pH: 7.51               ANC:  222.5        DOC:  5.79
Closed DIC:  3.06   Equil. DIC:  2.17    Meas. Cond:  43.4   Cal. Cond:  44.6
Ca:  273.3            Mg:   48.0        Na:   44.9         K:  15.8      NH4:   2.3
SO4:  135.0        HCO3:  201.0        Cl:   30.5        NO3:   0.3         F:   2.2
Sum Cations:  384.3  Sum Anions:  369.3  Cations/Anions: 1.04   Tot. P:  21.8
Tot. Al:   38.1    Ext. Al:   3.4     Fe:   69.0       Mn:   10.0     SiO2:  0.20

ID: 1B2-017   Name: LAKE HENRY                        State: PA  Date: 16NOV84
Sample Type: REGULAR             Latitude: 41-27'00"N   Longitude: 75-26'50"W
Elevation:  451   Surface Temp:  4.7  Stratified: MIXED     Site Depth:   6.7
Lake Area:      126 Watershed Area:    1510 WA/LA:    12.0 Hydro Type: DRAINAGE
Residence Time:  0.49  Secchi Depth:  3.4   Turbidity:   1.0      Color:   20
Closed pH: 7.15        Equil. pH: 7.34               ANC:  191.7        DOC:  2.90
Closed DIC:  2.48   Equil. DIC:  2.06    Meas. Cond:  55.3   Cal. Cond:  57.2
Ca:  273.0            Mg:   68.3        Na:  120.1         K:  14.1      NH4:   0.6
SO4:  163.4        HCO3:  156.6        Cl:  130.3        NO3:   1.6         F:   2.4
Sum Cations:  476.0  Sum Anions:  454.6  Cations/Anions: 1.05   Tot. P:  14.0
Tot. Al:   15.0    Ext. Al:   1.0     Fe:   30.0       Mn:    0.0     SiO2:  0.61

ID: 1B2-019   Name: CURTIS RESERVOIR                  State: PA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-22'55"N   Longitude: 75-30'15"W
Elevation:  455   Surface Temp:  8.3  Stratified: MIXED     Site Depth:   1.5
Lake Area:       29 Watershed Area:     572 WA/LA:    19.9 Hydro Type: RESERVOIR
Residence Time:  0.07  Secchi Depth:  0.4   Turbidity:   9.2      Color:   35
Closed pH: 6.90        Equil. pH: 7.53               ANC:  200.4        DOC:  2.94
Closed DIC:  3.50   Equil. DIC:  2.13    Meas. Cond:  64.7   Cal. Cond:  68.5
Ca:  323.4            Mg:   64.2        Na:  117.3         K:  16.1      NH4:   3.0
SO4:  252.4        HCO3:  190.4        Cl:  124.8        NO3:   2.6         F:   2.0
Sum Cations:  524.1  Sum Anions:  572.3  Cations/Anions: 0.92   Tot. P:  56.1
Tot. Al:  313.6    Ext. Al:   2.7     Fe:   89.0       Mn:  138.0     SiO2:  3.85

ID: 1B2-022   Name: MAPLE LAKE                        State: PA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-19'45"N   Longitude: 75-35'00"W
Elevation:  492   Surface Temp:  9.7  Stratified: MIXED     Site Depth:   3.0
Lake Area:       34 Watershed Area:     249 WA/LA:     7.4 Hydro Type: RESERVOIR
Residence Time:  0.35  Secchi Depth:  2.3   Turbidity:   1.6      Color:   30
Closed pH: 6.94        Equil. pH: 7.52               ANC:  214.0        DOC:  4.58
Closed DIC:  2.87   Equil. DIC:  2.38    Meas. Cond:  71.8   Cal. Cond:  79.2
Ca:  314.7            Mg:   78.1        Na:  203.5         K:  25.1      NH4:   9.4
SO4:  220.4        HCO3:  192.2        Cl:  223.9        NO3:   1.6         F:   2.8
Sum Cations:  630.8  Sum Anions:  641.1  Cations/Anions: 0.98   Tot. P:  22.8
Tot. Al:   43.7    Ext. Al:   2.5     Fe:  287.0       Mn:  175.0     SiO2:  0.35
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B2-025   Name: GRASSY POND                       State: PA  Date: 12NOV84
Sample Type: REGULAR           Latitude: 41-16'45"N   Longitude: 76-09'20"W
Elevation:  393   Surface Temp:  8.6  Stratified: MIXED     Site Depth:   4.6
Lake Area:        5 Watershed Area:     41 WA/LA:      7.7 Hydro Type: DRAINAGE
Residence Time:  0.65  Secchi Depth:  2.5   Turbidity:   2.0      Color:   30
Closed pH: 6.81       Equil. pH: 7.66              ANC:  315.1        DOC:  4.50
Closed DIC:  5.11   Equil. DIC:  3.56    Meas. Cond:  67.1   Cal. Cond:  70.8
Ca:  357.3          Mg:  127.5       Na:   84.0         K:  24.8       NH4:   6.1
SO4:  151.6      HCO3:  300.4      Cl:  137.4       NO3:    1.3          F:   3.3
Sum Cations:  599.8  Sum Anions:  594.3  Cations/Anions: 1.01   Tot. P:  23.0
Tot. Al:    24.0    Ext. Al:     2.0    Fe:  340.0      Mn:    50.0   SiO2:  0.56

ID: 1B2-027   Name: DEEP HOLLOW POND                  State: PA  Date: 07NOV84
Sample Type: REGULAR           Latitude: 41-15'20"N   Longitude: 75-47'40"W
Elevation:  342   Surface Temp: 11.2  Stratified: MIXED     Site Depth:   4.8
Lake Area:       10 Watershed Area:    231 WA/LA:     22.2 Hydro Type: RESERVOIR
Residence Time:  0.19  Secchi Depth:  2.4   Turbidity:   1.6      Color:    8
Closed pH: 6.69       Equil. pH: 6.97              ANC:   68.9        DOC:  1.69
Closed DIC:  1.05   Equil. DIC:  0.76    Meas. Cond:  46.6   Cal. Cond:  50.1
Ca:  243.4          Mg:    73.3      Na:   31.7         K:  10.5       NH4:   1.8
SO4:  305.1      HCO3:    56.9     Cl:    26.9      NO3:    0.6          F:   3.0
Sum Cations:  361.0  Sum Anions:  392.5  Cations/Anions: 0.92   Tot. P:   6.2
Tot. Al:  127.6    Ext. Al:     1.9    Fe:    15.0      Mn:    25.5   SiO2:  1.20

ID: 1B2-028   Name: MILL CREEK RESERVOIR              State: PA  Date: 16NOV84
Sample Type: REGULAR           Latitude: 41-15'45"N   Longitude: 75-45'00"W
Elevation:  436   Surface Temp:  7.7  Stratified: MIXED     Site Depth:   9.0
Lake Area:       38 Watershed Area:    759 WA/LA:     20.2 Hydro Type: RESERVOIR
Residence Time:  0.40  Secchi Depth:  9.3   Turbidity:   0.6      Color:   15
Closed pH: 6.23       Equil. pH: 6.44              ANC:     9.8        DOC:  1.20
Closed DIC:  0.53   Equil. DIC:  0.37    Meas. Cond:  30.9   Cal. Cond:  32.1
Ca:  124.8          Mg:    70.7      Na:   31.3         K:   9.5       NH4:   0.0
SO4:  185.3      HCO3:    11.7     Cl:    35.8      NO3:    0.2          F:   2.7
Sum Cations:  237.4  Sum Anions:  235.8  Cations/Anions: 1.01   Tot. P:   0.0
Tot. Al:    20.0    Ext. Al:     3.0    Fe:     0.0      Mn:    30.0   SiO2:  1.57

ID: 1B2-030   Name: HENRY LAKE                        State: PA  Date: 03NOV84
Sample Type: REGULAR           Latitude: 41-17'00"N   Longitude: 75-29'10"W
Elevation:  579   Surface Temp: 11.0  Stratified: MIXED     Site Depth:   3.0
Lake Area:       28 Watershed Area:     80 WA/LA:      2.8 Hydro Type: RESERVOIR
Residence Time:  0.85  Secchi Depth:  2.3   Turbidity:   2.7      Color:   20
Closed pH: 6.31       Equil. pH: 6.56              ANC:   29.9        DOC:  2.86
Closed DIC:  0.59   Equil. DIC:  0.37    Meas. Cond:  36.8   Cal. Cond:  37.9
Ca:  181.7          Mg:    42.3      Na:   36.0         K:  11.9       NH4:   1.9
SO4:  123.5      HCO3:    22.7     Cl:  139.3       NO3:    1.4          F:   2.2
Sum Cations:  274.6  Sum Anions:  289.2  Cations/Anions: 0.95   Tot. P:  12.2
Tot. Al:  137.7    Ext. Al:     3.5    Fe:    31.0      Mn:  120.0   SiO2:  0.50

ID: 1B2-031   Name: NO NAME(HIDDEN LAKE)              State: PA  Date: 01NOV84
Sample Type: REGULAR           Latitude: 41-13'00"N   Longitude: 76-12'00"W
Elevation:  302   Surface Temp: 14.2  Stratified: MIXED     Site Depth:   3.0
Lake Area:        7 Watershed Area:    101 WA/LA:     13.6 Hydro Type: RESERVOIR
Residence Time:  0.25  Secchi Depth:  1.9   Turbidity:   2.8      Color:   35
Closed pH: 6.88       Equil. pH: 7.75              ANC:  345.1        DOC:  5.80
Closed DIC:  5.32   Equil. DIC:  3.88    Meas. Cond:  91.8   Cal. Cond: 100.0
Ca:  367.8          Mg:  204.8       Na:  217.5         K:  42.9       NH4:   6.0
SO4:  228.3      HCO3:  341.0      Cl:  246.7       NO3:    2.6          F:   4.2
Sum Cations:  839.2  Sum Anions:  823.1  Cations/Anions: 1.02   Tot. P:  46.3
Tot. Al:    53.1    Ext. Al:    10.4    Fe:  372.0      Mn:  581.5   SiO2:  4.15
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B2-033   Name: NO NAME(LAKE ALEEDA)           State: PA  Date: 16NOV84
Sample Type: REGULAR            Latitude: 41-14'45"N   Longitude: 75-43'15"W
Elevation:  582   Surface Temp:  3.7  Stratified: MIXED      Site Depth:   3.9
Lake Area:     26 Watershed Area:     119 WA/LA:     4.6 Hydro Type: RESERVOIR
Residence Time:  0.71  Secchi Depth:  1.6  Turbidity:   2.5      Color:   45
Closed pH: 5.14        Equil. pH: 5.15              ANC:  -16.9         DOC:  2.20
Closed DIC:  0.38   Equil. DIC:  0.19    Meas. Cond:  37.6   Cal. Cond:  41.1
Ca:   81.3          Mg:    69.9        Na:   84.8          K:  15.6       NH4:  1.1
SO4:  158.6       HCO3:     1.6       Cl:  136.5        NO3:    7.9          F:  1.7
Sum Cations:  261.9  Sum Anions:  306.5  Cations/Anions: 0.85   Tot. P:  24.0
Tot. Al:    99.0    Ext. Al:  43.0    Fe:  430.0      Mn:  210.0    SiO2:  0.08

ID: 1B2-034   Name: MEADOW RUN PONDS (SOUTH)       State: PA  Date: 01NOV84
Sample Type: REGULAR            Latitude: 41-12'55"N   Longitude: 75-40'15"W
Elevation:  607   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   1.6
Lake Area:     15 Watershed Area:     510 WA/LA:    34.0 Hydro Type: RESERVOIR
Residence Time:  0.04  Secchi Depth:  1.6  Turbidity:   1.3      Color:   15
Closed pH: 5.77        Equil. pH: 6.02              ANC:   12.4         DOC:  1.76
Closed DIC:  0.38   Equil. DIC:  0.19    Meas. Cond:  22.7   Cal. Cond:  23.1
Ca:   54.2          Mg:    55.1        Na:   41.3          K:  12.6       NH4:  2.8
SO4:  116.3       HCO3:     9.4       Cl:   41.0        NO3:    0.2          F:  1.8
Sum Cations:  168.2  Sum Anions:  168.6  Cations/Anions: 1.00   Tot. P:  12.8
Tot. Al:    72.5    Ext. Al:  10.7    Fe:  107.0      Mn:   90.0    SiO2:  0.02

ID: 1B2-036   Name: NO NAME(LAKE PINCREST)         State: PA  Date: 01NOV84
Sample Type: REGULAR            Latitude: 41-11'00"N   Longitude: 76-14'40"W
Elevation:  290   Surface Temp: 14.8  Stratified: MIXED      Site Depth:   2.7
Lake Area:     27 Watershed Area:     166 WA/LA:     6.1 Hydro Type: RESERVOIR
Residence Time:  0.47  Secchi Depth:  0.9  Turbidity:   2.2      Color:   30
Closed pH: 7.03        Equil. pH: 7.87              ANC:  476.7         DOC:  4.73
Closed DIC:  6.48   Equil. DIC:  5.07    Meas. Cond:  81.0   Cal. Cond:  86.7
Ca:  413.7          Mg:   153.0        Na:  139.1          K:  31.3       NH4: 15.6
SO4:  179.2       HCO3:   450.0       Cl:  111.7        NO3:    5.0          F:  3.9
Sum Cations:  752.8  Sum Anions:  750.4  Cations/Anions: 1.00   Tot. P:  28.0
Tot. Al:   119.0    Ext. Al:   5.0    Fe:   14.0      Mn:   27.0    SiO2:  0.82

ID: 1B2-037   Name: HANOVER RESERVOIR              State: PA  Date: 01NOV84
Sample Type: REGULAR            Latitude: 41-10'20"N   Longitude: 75-59'20"W
Elevation:  325   Surface Temp: 14.3  Stratified: MIXED      Site Depth:   1.8
Lake Area:      7 Watershed Area:      73 WA/LA:    10.4 Hydro Type: RESERVOIR
Residence Time:  0.15  Secchi Depth:  1.8  Turbidity:   1.0      Color:   15
Closed pH: 6.53        Equil. pH: 7.15              ANC:  101.9         DOC:  3.64
Closed DIC:  2.09   Equil. DIC:  1.12    Meas. Cond:  38.5   Cal. Cond:  41.3
Ca:  174.4          Mg:    85.5        Na:   32.5          K:  27.3       NH4:  1.1
SO4:  200.6       HCO3:    93.6       Cl:   28.5        NO3:    0.1          F:  2.4
Sum Cations:  321.1  Sum Anions:  325.3  Cations/Anions: 0.99   Tot. P:  16.3
Tot. Al:    32.2    Ext. Al:   8.4    Fe:   42.0      Mn:   52.0    SiO2:  2.02

ID: 1B2-038   Name: THE ICE PONDS (EAST)           State: PA  Date: 01NOV84
Sample Type: REGULAR            Latitude: 41-08'35"N   Longitude: 75-56'15"W
Elevation:  349   Surface Temp: 14.0  Stratified: MIXED      Site Depth:   2.4
Lake Area:     16 Watershed Area:     329 WA/LA:    20.7 Hydro Type: RESERVOIR
Residence Time:  0.10  Secchi Depth:  2.0  Turbidity:   0.6      Color:   20
Closed pH: 6.71        Equil. pH: 7.08              ANC:   85.1         DOC:  3.48
Closed DIC:  1.19   Equil. DIC:  0.89    Meas. Cond:  40.4   Cal. Cond:  41.8
Ca:  132.2          Mg:    86.7        Na:   96.9          K:  12.9       NH4:  1.2
SO4:  181.7       HCO3:    71.3       Cl:   68.7        NO3:    0.2          F:  6.3
Sum Cations:  330.2  Sum Anions:  328.2  Cations/Anions: 1.01   Tot. P:  12.7
Tot. Al:    26.0    Ext. Al:   8.8    Fe:    8.0      Mn:   13.0    SiO2:  0.79
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B2-039   Name: CRYSTAL LAKE                      State: PA  Date: 01NOV84
Sample Type: REGULAR              Latitude: 41-10'00"N    Longitude: 75-50'00"W
Elevation:  594   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   4.9
Lake Area:     213 Watershed Area:     658 WA/LA:      3.1 Hydro Type: RESERVOIR
Residence Time:  1.29  Secchi Depth:  4.9   Turbidity:   0.3      Color:    5
Closed pH: 4.67         Equil. pH: 4.63               ANC:  -19.9         DOC:  0.24
Closed DIC:  0.29   Equil. DIC:  0.14    Meas. Cond:  34.9   Cal. Cond:  36.0
Ca:   59.8           Mg:    45.1        Na:    60.5       K:    8.7       NH4:   2.2
SO4:   152.6       HCO3:     0.5        Cl:    66.5      NO3:    5.6          F:   2.4
Sum Cations:  200.3  Sum Anions:  227.5  Cations/Anions: 0.88   Tot. P:   5.1
Tot. Al:  167.7    Ext. Al: 103.7     Fe:    74.0      Mn:  181.0     SiO2:  0.19

ID: 1B2-040   Name: BEAR CREEK LAKE                   State: PA  Date: 01NOV84
Sample Type: REGULAR              Latitude: 41-11'00"N    Longitude: 75-45'15"W
Elevation:  464   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   2.1
Lake Area:      32 Watershed Area:    8399 WA/LA:    265.8 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  1.7   Turbidity:   1.3      Color:   35
Closed pH: 5.60         Equil. pH: 6.21               ANC:   21.7         DOC:  3.55
Closed DIC:  1.24   Equil. DIC:  0.22    Meas. Cond:  65.9   Cal. Cond:  66.7
Ca:  109.8           Mg:    95.4        Na:   299.3       K:   22.4       NH4:   1.4
SO4:   133.5       HCO3:    15.3        Cl:   342.8      NO3:    0.4          F:   2.6
Sum Cations:  530.3  Sum Anions:  494.5  Cations/Anions: 1.07   Tot. P:  10.6
Tot. Al:  108.7    Ext. Al:  62.1     Fe:   183.0      Mn:   53.0     SiO2:  2.24

ID: 1B2-042   Name: SECOND POND                       State: PA  Date: 18NOV84
Sample Type: REGULAR              Latitude: 41-08'45"N    Longitude: 75-01'45"W
Elevation:  351   Surface Temp:  7.5  Stratified: MIXED      Site Depth:  10.8
Lake Area:      33 Watershed Area:     249 WA/LA:      7.7 Hydro Type: DRAINAGE
Residence Time:  1.16  Secchi Depth:  1.6   Turbidity:   1.8      Color:   20
Closed pH: 6.68         Equil. pH: 7.35               ANC:  156.2         DOC:  3.00
Closed DIC:  2.49   Equil. DIC:  1.77    Meas. Cond:  49.4   Cal. Cond:  50.4
Ca:  192.1           Mg:    99.5        Na:   104.4       K:   15.6       NH4:   0.0
SO4:   158.6       HCO3:   138.1        Cl:   107.5      NO3:    0.4          F:   2.8
Sum Cations:  411.8  Sum Anions:  407.6  Cations/Anions: 1.01   Tot. P:  13.0
Tot. Al:   22.0    Ext. Al:   2.0     Fe:    90.0      Mn:  370.0     SiO2:  0.46

ID: 1B2-044   Name: SWIFTWATER LAKE                   State: PA  Date: 01NOV84
Sample Type: REGULAR              Latitude: 41-05'53"N    Longitude: 75-16'39"W
Elevation:  261   Surface Temp: 13.4  Stratified: MIXED      Site Depth:   3.6
Lake Area:       8 Watershed Area:    2484 WA/LA:    322.6 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  1.7   Turbidity:   1.7      Color:   20
Closed pH: 6.55         Equil. pH: 7.52               ANC:  215.4         DOC:  0.59
Closed DIC:  4.25   Equil. DIC:  2.50    Meas. Cond:  80.5   Cal. Cond:  84.1
Ca:  246.2           Mg:   120.1        Na:   284.5       K:   16.0       NH4:  11.3
SO4:   121.8       HCO3:   208.5        Cl:   353.4      NO3:    9.3          F:   1.7
Sum Cations:  678.3  Sum Anions:  694.8  Cations/Anions: 0.98   Tot. P:  12.4
Tot. Al:   69.6    Ext. Al:   5.2     Fe:    88.0      Mn:  277.0     SiO2:  4.27

ID: 1B2-045   Name: MANZANEDO LAKE                    State: PA  Date: 01NOV84
Sample Type: REGULAR              Latitude: 41-07'00"N    Longitude: 75-11'45"W
Elevation:  317   Surface Temp: 14.1  Stratified: MIXED      Site Depth:   1.8
Lake Area:       6 Watershed Area:     194 WA/LA:     30.8 Hydro Type: RESERVOIR
Residence Time:  0.05  Secchi Depth:  1.5   Turbidity:   1.1      Color:   30
Closed pH: 6.74         Equil. pH: 7.51               ANC:  206.4         DOC:  3.73
Closed DIC:  3.22   Equil. DIC:  2.23    Meas. Cond:  47.2   Cal. Cond:  48.2
Ca:  223.9           Mg:    79.6        Na:    98.9       K:   16.5       NH4:   1.0
SO4:   148.8       HCO3:   157.8        Cl:    67.3      NO3:    0.8          F:   3.7
Sum Cations:  420.1  Sum Anions:  378.4  Cations/Anions: 1.11   Tot. P:  20.5
Tot. Al:   43.5    Ext. Al:   6.0     Fe:    65.0      Mn:   66.0     SiO2:  0.18
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B2-046   Name: IVAN SWAMP                      State: PA  Date: 16NOV84
Sample Type: REGULAR           Latitude: 41-08'26"N    Longitude: 75-09'14"W
Elevation:  351   Surface Temp:  3.9  Stratified: MIXED     Site Depth:   1.4
Lake Area:       7 Watershed Area:      73 WA/LA:      9.9 Hydro Type: RESERVOIR
Residence Time:  0.12  Secchi Depth:  1.3   Turbidity:   2.9     Color:   45
Closed pH: 7.04       Equil. pH: 7.49              ANC:  135.8        DOC:  5.00
Closed DIC:  1.76   Equil. DIC:  1.61    Meas. Cond:  34.6   Cal. Cond:  33.7
Ca:  168.7          Mg:   57.6       Na:   62.2       K:  11.8       NH4:  2.2
SO4:  100.4       HCO3:  101.8       Cl:   45.4     NO3:   3.1         F:  1.8
Sum Cations:  302.7  Sum Anions:  252.5  Cations/Anions: 1.20   Tot. P:  47.0
Tot. Al:   81.0    Ext. Al:   2.0    Fe:   60.0     Mn:   0.0    SiO2:  0.79

ID: 1B2-047   Name: FIRST POND                      State: PA  Date: 18NOV84
Sample Type: REGULAR           Latitude: 41-08'05"N    Longitude: 75-01'35"W
Elevation:  322   Surface Temp:  7.5  Stratified: MIXED     Site Depth:   7.6
Lake Area:      30 Watershed Area:     215 WA/LA:      7.3 Hydro Type: DRAINAGE
Residence Time:  0.86  Secchi Depth:  2.0   Turbidity:   1.8     Color:   20
Closed pH: 6.90       Equil. pH: 7.54              ANC:  296.8        DOC:  3.30
Closed DIC:  4.10   Equil. DIC:  3.27    Meas. Cond:  67.6   Cal. Cond:  68.7
Ca:  239.0          Mg:  139.8       Na:  175.7       K:   3.3       NH4: 14.4
SO4:  168.6       HCO3:  258.2       Cl:  146.4     NO3:   8.0         F:  3.6
Sum Cations:  572.5  Sum Anions:  585.1  Cations/Anions: 0.98   Tot. P:  40.0
Tot. Al:   14.0    Ext. Al:   1.0    Fe:  210.0     Mn:  20.0    SiO2:  1.21

ID: 1B2-048   Name: (NO NAME)                       State: PA  Date: 15NOV84
Sample Type: REGULAR           Latitude: 41-02'45"N    Longitude: 75-24'00"W
Elevation:  558   Surface Temp:  1.5  Stratified: MIXED     Site Depth:   0.9
Lake Area:      11 Watershed Area:     337 WA/LA:     31.5 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  0.5   Turbidity:   5.4     Color:   50
Closed pH: 4.91       Equil. pH: 4.85              ANC:  -12.0        DOC:  2.50
Closed DIC:  0.29   Equil. DIC:  0.22    Meas. Cond:  18.1   Cal. Cond:  17.5
Ca:   38.9          Mg:   20.6       Na:   22.2       K:   5.9       NH4:  0.6
SO4:   68.3       HCO3:    1.5       Cl:   24.5     NO3:   6.4         F:  1.2
Sum Cations:  101.3  Sum Anions:  101.9  Cations/Anions: 0.99   Tot. P:  21.0
Tot. Al:  136.0    Ext. Al:  40.0    Fe:  120.0     Mn:  50.0    SiO2:  1.21

ID: 1B2-049   Name: CRESENT LAKE                    State: PA  Date: 06NOV84
Sample Type: REGULAR           Latitude: 41-04'15"N    Longitude: 75-23'10"W
Elevation:  527   Surface Temp: 10.6  Stratified: MIXED     Site Depth:   3.1
Lake Area:       6 Watershed Area:      78 WA/LA:     12.6 Hydro Type: DRAINAGE
Residence Time:  0.22  Secchi Depth:  2.0   Turbidity:   2.5     Color:   30
Closed pH: 7.25       Equil. pH: 7.83              ANC:  409.1        DOC:  4.44
Closed DIC:  5.26   Equil. DIC:  4.42    Meas. Cond: 143.4   Cal. Cond: 155.9
Ca:  456.6          Mg:   67.9       Na:  762.1       K:  23.6       NH4:  2.3
SO4:  128.5       HCO3:  369.1       Cl:  761.8     NO3:   1.0         F:  2.5
Sum Cations: 1312.5  Sum Anions: 1263.8  Cations/Anions: 1.04   Tot. P:   9.7
Tot. Al:   52.6    Ext. Al:   8.5    Fe:   85.0     Mn: 200.0    SiO2:  1.86

ID: 1B2-051   Name: BELMONT LAKE                    State: PA  Date: 03NOV84
Sample Type: REGULAR           Latitude: 41-46'36"N    Longitude: 75-26'30"W
Elevation:  593   Surface Temp: 10.3  Stratified: MIXED     Site Depth:   4.5
Lake Area:      69 Watershed Area:    1114 WA/LA:     16.1 Hydro Type: RESERVOIR
Residence Time:  0.25  Secchi Depth:  2.4   Turbidity:   0.9     Color:   20
Closed pH: 6.99       Equil. pH: 7.32              ANC:  143.4        DOC:  3.41
Closed DIC:  1.82   Equil. DIC:  1.52    Meas. Cond:  37.7   Cal. Cond:  39.0
Ca:  217.5          Mg:   48.5       Na:   43.8       K:  12.3       NH4:  1.2
SO4:  146.6       HCO3:  125.6       Cl:   36.3     NO3:   0.1         F:  2.0
Sum Cations:  323.4  Sum Anions:  310.7  Cations/Anions: 1.04   Tot. P:   8.8
Tot. Al:   54.1    Ext. Al:   4.2    Fe:   27.0     Mn:   0.0    SiO2:  0.41
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B2-053   Name: NORTH LAKE                        State: PA  Date: 16NOV84
Sample Type: REGULAR            Latitude: 41-17'30"N    Longitude: 76-08'39"W
Elevation:  417   Surface Temp:  6.5  Stratified: MIXED      Site Depth:   6.4
Lake Area:       16 Watershed Area:      54 WA/LA:      3.3 Hydro Type: DRAINAGE
Residence Time:  1.86  Secchi Depth:  3.8  Turbidity:   0.5       Color:   10
Closed pH: 7.32        Equil. pH: 7.70             ANC:  272.9         DOC:  2.65
Closed DIC:  3.41   Equil. DIC:  2.96    Meas. Cond:  69.4   Cal. Cond:  72.2
Ca:  333.1          Mg:    98.7      Na:  158.1         K:  20.5       NH4:  0.6
SO4:  192.4        HCO3:  222.1       Cl:  160.0       NO3:   0.6         F:  2.1
Sum Cations:  611.0  Sum Anions:  577.5  Cations/Anions: 1.06   Tot. P:  14.0
Tot. Al:     9.5    Ext. Al:   0.5    Fe:    5.0      Mn:    0.0    SiO2:  0.11

ID: 1B2-054   Name: TAMARACK LAKE                     State: PA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 41-15'16"N    Longitude: 75-29'34"W
Elevation:  561   Surface Temp:  8.6  Stratified: MIXED      Site Depth:   0.9
Lake Area:      30 Watershed Area:     440 WA/LA:     14.9 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  0.9  Turbidity:   0.7       Color:   25
Closed pH: 6.81        Equil. pH: 7.34             ANC:  154.0         DOC:  5.34
Closed DIC:  2.10   Equil. DIC:  1.57    Meas. Cond:  45.6   Cal. Cond:  46.6
Ca:  257.6          Mg:    66.1      Na:   42.4         K:  11.5       NH4:  4.2
SO4:  165.9        HCO3:  134.9       Cl:   60.1       NO3:   7.0         F:  2.2
Sum Cations:  381.9  Sum Anions:  370.2  Cations/Anions: 1.03   Tot. P:  15.1
Tot. Al:    35.2    Ext. Al:   3.7    Fe:   22.0      Mn:    6.0    SiO2:  0.35

ID: 1B2-055   Name: MEADOW RUN PO.(LG.NORTH)          State: PA  Date: 01NOV84
Sample Type: REGULAR            Latitude: 41-13'29"N    Longitude: 75-40'02"W
Elevation:  613   Surface Temp: 12.8  Stratified: MIXED      Site Depth:   2.1
Lake Area:      36 Watershed Area:     438 WA/LA:     12.3 Hydro Type: RESERVOIR
Residence Time:  0.15  Secchi Depth:  3.1  Turbidity:   0.9       Color:   10
Closed pH: 6.13        Equil. pH: 6.33             ANC:   20.1         DOC:  1.59
Closed DIC:  0.39   Equil. DIC:  0.28    Meas. Cond:  18.5   Cal. Cond:  19.2
Ca:   49.6          Mg:    56.4      Na:   22.8         K:  10.4       NH4:  0.6
SO4:  101.4        HCO3:   18.1       Cl:   23.9       NO3:   0.5         F:  1.8
Sum Cations:  140.9  Sum Anions:  145.8  Cations/Anions: 0.97   Tot. P:   8.8
Tot. Al:    41.0    Ext. Al:   4.3    Fe:   54.0      Mn:   19.0    SiO2:  0.06

ID: 1B2-056   Name: NO NAME(GARDNERS DAM)             State: PA  Date: 16NOV84
Sample Type: REGULAR            Latitude: 41-16'15"N    Longitude: 75-45'47"W
Elevation:  327   Surface Temp:  6.4  Stratified: MIXED      Site Depth:   3.9
Lake Area:       6 Watershed Area:     974 WA/LA:    157.1 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  2.4  Turbidity:   1.3       Color:    5
Closed pH: 6.75        Equil. pH: 7.31             ANC:   99.7         DOC:  2.00
Closed DIC:  1.67   Equil. DIC:  1.21    Meas. Cond:  64.3   Cal. Cond:  70.3
Ca:  305.9          Mg:    86.4      Na:  124.0         K:  13.0       NH4:  0.6
SO4:  209.9        HCO3:   86.5       Cl:  253.9       NO3:   1.7         F:  2.4
Sum Cations:  530.0  Sum Anions:  554.4  Cations/Anions: 0.96   Tot. P:   4.0
Tot. Al:    41.0    Ext. Al:   1.0    Fe:   20.0      Mn:  420.0    SiO2:  2.46

ID: 1B2-058   Name: HOADLEY POND                      State: PA  Date: 07NOV84
Sample Type: REGULAR            Latitude: 41-33'32"N    Longitude: 75-23'55"W
Elevation:  438   Surface Temp: 10.1  Stratified: MIXED      Site Depth:   4.6
Lake Area:      15 Watershed Area:      52 WA/LA:      3.5 Hydro Type: DRAINAGE
Residence Time:  1.08  Secchi Depth:  1.1  Turbidity:   1.4       Color:   30
Closed pH: 6.83        Equil. pH: 7.22             ANC:  114.7         DOC:  6.73
Closed DIC:  1.47   Equil. DIC:  1.15    Meas. Cond:  32.4   Cal. Cond:  33.5
Ca:  187.7          Mg:    39.5      Na:   38.7         K:   8.4       NH4:  4.0
SO4:  139.1        HCO3:   93.8       Cl:   24.9       NO3:   0.1         F:  2.9
Sum Cations:  278.4  Sum Anions:  260.8  Cations/Anions: 1.07   Tot. P:  14.2
Tot. Al:    40.3    Ext. Al:   3.3    Fe:   12.0      Mn:    0.0    SiO2:  0.64
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B2-059   Name: MUD POND                              State: PA  Date: 07NOV84
Sample Type: REGULAR              Latitude: 41-23'01"N    Longitude: 75-31'35"W
Elevation:  486   Surface Temp:  7.9  Stratified: MIXED      Site Depth:   1.5
Lake Area:       14 Watershed Area:      73 WA/LA:      5.1 Hydro Type: RESERVOIR
Residence Time:  0.25  Secchi Depth:  1.5   Turbidity:   0.6      Color:   35
Closed pH: 6.69        Equil. pH: 7.50              ANC:  203.4          DOC:  5.93
Closed DIC:  3.33   Equil. DIC:  1.97    Meas. Cond:  48.5   Cal. Cond:  50.2
Ca:  193.2          Mg:   75.9       Na:  138.1        K:  17.9        NH4:  0.1
SO4:   72.3      HCO3:  187.4      Cl:  158.9       NO3:   0.2           F:  3.2
Sum Cations:  425.3  Sum Anions:  422.2  Cations/Anions: 1.01   Tot. P:  14.2
Tot. Al:   29.1    Ext. Al:   1.9    Fe:  126.0      Mn:    7.0    SiO2:  0.54

ID: 1B2-062   Name: CURTIS POND                           State: PA  Date: 07NOV84
Sample Type: REGULAR              Latitude: 41-32'08"N    Longitude: 75-22'40"W
Elevation:  418   Surface Temp:  9.6  Stratified: MIXED      Site Depth:   5.2
Lake Area:       16 Watershed Area:     171 WA/LA:     10.6 Hydro Type: DRAINAGE
Residence Time:  0.43  Secchi Depth:  0.8   Turbidity:   2.1      Color:   45
Closed pH: 6.71        Equil. pH: 7.51              ANC:  208.1          DOC:  7.07
Closed DIC:  3.39   Equil. DIC:  2.19    Meas. Cond:  42.1   Cal. Cond:  41.8
Ca:  237.6          Mg:   47.5       Na:   58.5        K:  10.9        NH4: 11.6
SO4:  108.7      HCO3:  180.4      Cl:   47.1       NO3:   0.4           F:  2.4
Sum Cations:  366.4  Sum Anions:  339.3  Cations/Anions: 1.08   Tot. P:  23.7
Tot. Al:   80.6    Ext. Al:   3.9    Fe:   62.0      Mn:  136.0    SiO2:  0.62

ID: 1B2-064   Name: LAKE MASKENOZHA                       State: PA  Date: 18NOV84
Sample Type: REGULAR              Latitude: 41-11'18"N    Longitude: 74'59'15"W
Elevation:  363   Surface Temp:  3.7  Stratified: MIXED      Site Depth:   1.8
Lake Area:       77 Watershed Area:    5499 WA/LA:     71.0 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  1.0   Turbidity:   2.5      Color:   60
Closed pH: 6.63        Equil. pH: 7.08              ANC:   74.3          DOC:  9.10
Closed DIC:  0.73   Equil. DIC:  0.70    Meas. Cond:  26.5   Cal. Cond:  24.9
Ca:  102.8          Mg:   72.4       Na:   58.3        K:   4.3        NH4:  0.0
SO4:   90.2      HCO3:   34.9      Cl:   33.0       NO3:   0.3           F:  2.9
Sum Cations:  238.4  Sum Anions:  161.3  Cations/Anions: 1.48   Tot. P:  39.0
Tot. Al:   23.0    Ext. Al:  27.0    Fe:  120.0      Mn:   30.0    SiO2:  2.10

ID: 1B2-065   Name: NO NAME(HIAWATHA LAKE)                State: PA  Date: 01NOV84
Sample Type: REGULAR              Latitude: 41-07'33"N    Longitude: 75-10'52"W
Elevation:  363   Surface Temp: 14.0  Stratified: MIXED      Site Depth:   1.8
Lake Area:        6 Watershed Area:     145 WA/LA:     23.0 Hydro Type: RESERVOIR
Residence Time:  0.07  Secchi Depth:  1.8   Turbidity:   0.9      Color:   20
Closed pH: 6.60        Equil. pH: 7.17              ANC:  100.1          DOC:  3.07
Closed DIC:  1.64   Equil. DIC:  1.13    Meas. Cond:  32.2   Cal. Cond:  33.5
Ca:  147.7          Mg:   54.4       Na:   64.4        K:  12.1        NH4:  1.2
SO4:  141.3      HCO3:   85.6      Cl:   28.7       NO3:   0.4           F:  3.5
Sum Cations:  280.1  Sum Anions:  259.6  Cations/Anions: 1.08   Tot. P:  15.6
Tot. Al:   27.7    Ext. Al:   5.4    Fe:   66.0      Mn:   69.0    SiO2:  0.48

ID: 1B2-066   Name: KIZER POND                            State: PA  Date: 16NOV84
Sample Type: REGULAR              Latitude: 41-27'21"N    Longitude: 75-27'38"W
Elevation:  472   Surface Temp:  3.1  Stratified: MIXED      Site Depth:   1.2
Lake Area:       43 Watershed Area:     596 WA/LA:     13.7 Hydro Type: RESERVOIR
Residence Time:  0.08  Secchi Depth:  1.2   Turbidity:   1.9      Color:   30
Closed pH: 6.97        Equil. pH: 7.58              ANC:  125.6          DOC:  3.40
Closed DIC:  1.77   Equil. DIC:  1.38    Meas. Cond:  48.9   Cal. Cond:  49.7
Ca:  198.1          Mg:   78.1       Na:  122.2        K:  12.0        NH4:  0.6
SO4:  131.8      HCO3:   95.8      Cl:  152.6       NO3:   1.0           F:  2.7
Sum Cations:  411.3  Sum Anions:  383.9  Cations/Anions: 1.07   Tot. P:  22.0
Tot. Al:   43.0    Ext. Al:   1.0    Fe:   80.0      Mn:  120.0    SiO2:  0.50
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B2-069   Name: BOYLE POND                    State: PA  Date: 16NOV84
Sample Type: REGULAR            Latitude: 41-10'11"N    Longitude: 75-55'30"W
Elevation:  373   Surface Temp:  5.0  Stratified: MIXED     Site Depth:   1.5
Lake Area:      12 Watershed Area:     179 WA/LA:     15.2 Hydro Type: RESERVOIR
Residence Time:  0.09  Secchi Depth:  1.3   Turbidity:   2.3      Color:   35
Closed pH: 7.23        Equil. pH: 7.51             ANC:  287.2         DOC:  3.90
Closed DIC:  3.73   Equil. DIC:  3.17    Meas. Cond:  47.4   Cal. Cond:  49.5
Ca:  262.5           Mg:  111.9          Na:   44.4           K:  18.7       NH4:  0.0
SO4:  121.8        HCO3:  252.8        Cl:   40.1         NO3:   1.2          F:  3.3
Sum Cations:  437.5  Sum Anions:  419.4  Cations/Anions: 1.04   Tot. P:  40.0
Tot. Al:   24.0    Ext. Al:    1.0    Fe:  230.0      Mn:    0.0    SiO2:  1.41


ID: 1B2-070   Name: INDIAN LAKE                   State: PA  Date: 01NOV84
Sample Type: REGULAR            Latitude: 41-11'20"N    Longitude: 75-40'03"W
Elevation:  571   Surface Temp: 13.0  Stratified: MIXED     Site Depth:   4.2
Lake Area:      13 Watershed Area:      67 WA/LA:      5.1 Hydro Type: DRAINAGE
Residence Time:  0.69  Secchi Depth:  2.5   Turbidity:   1.2      Color:   20
Closed pH: 6.66        Equil. pH: 7.13             ANC:   95.5         DOC:  3.06
Closed DIC:  1.69   Equil. DIC:  1.07    Meas. Cond:  42.3   Cal. Cond:  45.4
Ca:  160.1           Mg:   54.9          Na:  120.0           K:  19.2       NH4:  1.6
SO4:  142.5        HCO3:  109.8        Cl:  116.5         NO3:   0.3          F:  2.9
Sum Cations:  355.9  Sum Anions:  372.1  Cations/Anions: 0.96   Tot. P:  12.3
Tot. Al:   37.5    Ext. Al:    4.5    Fe:   56.0      Mn:   34.0    SiO2:  0.22


ID: 1B3-001   Name: CAYUGA LAKE                   State: NY  Date: 15NOV84
Sample Type: REGULAR            Latitude: 42-45'00"N    Longitude: 76-45'00"W
Elevation:  118   Surface Temp:  9.2  Stratified: MIXED     Site Depth:  27.4
Lake Area:  16604 Watershed Area: 202743 WA/LA:     12.2 Hydro Type: DRAINAGE
Residence Time:  2.49  Secchi Depth:  8.8   Turbidity:   0.5      Color:    5
Closed pH: 8.16        Equil. pH: 8.68             ANC: 2126.0         DOC:  2.60
Closed DIC: 25.11   Equil. DIC: 23.09    Meas. Cond: 434.9   Cal. Cond: 490.4
Ca: 2092.3           Mg:  865.4          Na: 1254.1           K:  51.9       NH4:  1.1
SO4:  719.3        HCO3: 1895.8        Cl: 1362.5         NO3:  75.5          F:  4.4
Sum Cations: 4264.8  Sum Anions: 4084.4  Cations/Anions: 1.04   Tot. P:   7.0
Tot. Al:   16.0    Ext. Al:    1.0    Fe:   10.0      Mn:    0.0    SiO2:  0.72


ID: 1B3-003   Name: TRIANGLE LAKE                 State: NY  Date: 15NOV84
Sample Type: REGULAR            Latitude: 42-32'00"N    Longitude: 74-12'15"W
Elevation:  610   Surface Temp:  4.8  Stratified: MIXED     Site Depth:   7.6
Lake Area:      11 Watershed Area:     117 WA/LA:     10.9 Hydro Type: DRAINAGE
Residence Time:  0.60  Secchi Depth:  1.5   Turbidity:   3.7      Color:   30
Closed pH: 7.36        Equil. pH: 7.91             ANC:  476.4         DOC:  4.00
Closed DIC:  5.92   Equil. DIC:  5.25    Meas. Cond:  86.4   Cal. Cond:  88.2
Ca:  479.0           Mg:  103.6          Na:  175.3           K:  16.1       NH4:  9.4
SO4:  118.3        HCO3:  412.0        Cl:  203.1         NO3:   1.9          F:  1.5
Sum Cations:  783.6  Sum Anions:  737.6  Cations/Anions: 1.06   Tot. P:  20.5
Tot. Al:   50.0    Ext. Al:    1.0    Fe:  165.0      Mn:   90.0    SiO2:  1.09


ID: 1B3-004   Name: GUILFORD LAKE                 State: NY  Date: 15NOV84
Sample Type: REGULAR            Latitude: 42-24'45"N    Longitude: 75-30'00"W
Elevation:  475   Surface Temp:  6.9  Stratified: MIXED     Site Depth:  15.2
Lake Area:      30 Watershed Area:     404 WA/LA:     13.6 Hydro Type: DRAINAGE
Residence Time:  0.96  Secchi Depth:  2.7   Turbidity:   1.2      Color:   25
Closed pH: 7.00        Equil. pH: 7.81             ANC:  343.4         DOC:  2.90
Closed DIC:  5.26   Equil. DIC:  3.89    Meas. Cond:  73.8   Cal. Cond:  78.0
Ca:  428.6           Mg:  131.6          Na:  101.4           K:  20.2       NH4:  4.4
SO4:  194.0        HCO3:  327.3        Cl:  109.5         NO3:   0.7          F:  1.8
Sum Cations:  686.3  Sum Anions:  633.8  Cations/Anions: 1.08   Tot. P:  37.0
Tot. Al:   14.0    Ext. Al:    1.0    Fe:  190.0      Mn:  250.0    SiO2:  0.96
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B3-005   Name: AFTON LAKE                         State: NY  Date: 15NOV84
Sample Type: REGULAR             Latitude: 42-14'20"N   Longitude: 75-30'45"W
Elevation:  301   Surface Temp:  8.3  Stratified: MIXED      Site Depth:  16.2
Lake Area:      13 Watershed Area:     36 WA/LA:      2.8 Hydro Type: SEEPAGE
Residence Time:   *   Secchi Depth:  2.3  Turbidity:   0.7      Color:    15
Closed pH: 7.02       Equil. pH: 7.85              ANC:  422.3        DOC:  3.30
Closed DIC:  6.07   Equil. DIC:  4.62   Meas. Cond:  85.8   Cal. Cond:  89.6
Ca:  421.7          Mg:  125.9       Na:  197.1          K:  33.2       NH4:  1.7
SO4:  159.3       HCO3:  377.9       Cl:  205.9        NO3:   0.0          F:  2.3
Sum Cations:  779.6  Sum Anions:  745.9  Cations/Anions: 1.05   Tot. P:  16.0
Tot. Al:    8.0    Ext. Al:   2.0    Fe:     0.0      Mn:    0.0    SiO2:  0.09

ID: 1B3-007   Name: OQUAGA LAKE                        State: NY  Date: 03NOV84
Sample Type: REGULAR             Latitude: 42-01'15"N   Longitude: 75-27'30"W
Elevation:  479   Surface Temp: 11.9  Stratified: STRONG     Site Depth:  21.9
Lake Area:      54 Watershed Area:    267 WA/LA:      5.0 Hydro Type: DRAINAGE
Residence Time:  3.66  Secchi Depth:  3.8  Turbidity:   0.7      Color:    10
Closed pH: 6.89       Equil. pH: 7.47              ANC:  191.2        DOC:  1.84
Closed DIC:  2.77   Equil. DIC:  2.08   Meas. Cond:  52.1   Cal. Cond:  54.1
Ca:  216.4          Mg:   79.3       Na:  125.8          K:  15.9       NH4:  3.9
SO4:  146.9       HCO3:  175.4       Cl:  124.7        NO3:   0.6          F:  1.8
Sum Cations:  441.4  Sum Anions:  449.7  Cations/Anions: 0.98   Tot. P:  11.4
Tot. Al:   48.2    Ext. Al:   2.7    Fe:     0.0      Mn:   21.5    SiO2:  0.57

ID: 1B3-012   Name: LITTLE BUTLER LAKE                 State: PA  Date: 15NOV84
Sample Type: REGULAR             Latitude: 41-51'45"N   Longitude: 75-37'40"W
Elevation:  491   Surface Temp:  4.0  Stratified: MIXED      Site Depth:   1.8
Lake Area:      10 Watershed Area:    137 WA/LA:     14.3 Hydro Type: RESERVOIR
Residence Time:  0.20  Secchi Depth:  1.8  Turbidity:   0.6      Color:    35
Closed pH: 7.13       Equil. pH: 7.74              ANC:  343.0        DOC:  5.40
Closed DIC:  4.49   Equil. DIC:  3.77   Meas. Cond:  63.9   Cal. Cond:  63.4
Ca:  333.3          Mg:  133.3       Na:   75.7          K:  38.4       NH4:  3.3
SO4:  123.9       HCO3:  291.8       Cl:   81.8        NO3:   5.2          F:  2.5
Sum Cations:  584.1  Sum Anions:  505.5  Cations/Anions: 1.16   Tot. P:  25.0
Tot. Al:   25.0    Ext. Al:   3.0    Fe:    60.0      Mn:    0.0    SiO2:  0.51

ID: 1B3-013   Name: STUMP POND                         State: NY  Date: 15NOV84
Sample Type: REGULAR             Latitude: 41-50'15"N   Longitude: 74-54'00"W
Elevation:  531   Surface Temp:  2.5  Stratified: MIXED      Site Depth:   2.3
Lake Area:       9 Watershed Area:    129 WA/LA:     14.2 Hydro Type: RESERVOIR
Residence Time:  0.10  Secchi Depth:  1.9  Turbidity:   1.6      Color:    35
Closed pH: 7.13       Equil. pH: 7.40              ANC:  190.7        DOC:  4.80
Closed DIC:  2.27   Equil. DIC:  1.98   Meas. Cond:  40.6   Cal. Cond:  39.5
Ca:  227.0          Mg:   63.3       Na:   47.8          K:  19.2       NH4:  1.1
SO4:   93.1       HCO3:  147.6       Cl:   59.5        NO3:   0.4          F:  2.3
Sum Cations:  358.6  Sum Anions:  303.0  Cations/Anions: 1.18   Tot. P:  22.0
Tot. Al:   32.0    Ext. Al:   3.0    Fe:    20.0      Mn:    0.0    SiO2:  0.33

ID: 1B3-014   Name: BROWNS POND                        State: PA  Date: 12NOV84
Sample Type: REGULAR             Latitude: 41-48'50"N   Longitude: 76-35'00"W
Elevation:  399   Surface Temp:  6.7  Stratified: MIXED      Site Depth:   0.9
Lake Area:       6 Watershed Area:     47 WA/LA:      8.3 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  0.9  Turbidity:   0.9      Color:    25
Closed pH: 8.47       Equil. pH: 8.10              ANC:  688.3        DOC:  5.50
Closed DIC:  7.94   Equil. DIC:  7.71   Meas. Cond: 104.9   Cal. Cond: 113.8
Ca:  580.8          Mg:  340.6       Na:   94.4          K:  16.6       NH4:  1.7
SO4:  228.6       HCO3:  620.9       Cl:  110.0        NO3:   3.2          F:  4.8
Sum Cations: 1034.1  Sum Anions:  971.8  Cations/Anions: 1.06   Tot. P:  14.0
Tot. Al:   20.0    Ext. Al:   5.0    Fe:    50.0      Mn:    0.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B3-015   Name: (NO NAME)                          State: PA  Date: 15NOV84
Sample Type: REGULAR           Latitude: 41-47'20"N    Longitude: 75-38'15"W
Elevation:  468   Surface Temp:  3.5  Stratified: MIXED      Site Depth:   1.5
Lake Area:       6 Watershed Area:      41 WA/LA:      7.4 Hydro Type: RESERVOIR
Residence Time:  0.30  Secchi Depth:  1.5   Turbidity:   3.2     Color:   15
Closed pH: 7.11        Equil. pH: 7.35              ANC:  226.0         DOC:  3.60
Closed DIC:  3.13   Equil. DIC:  2.49    Meas. Cond:  53.3   Cal. Cond:  54.4
Ca:  325.3          Mg:   56.8        Na:   68.3          K:  13.0       NH4:  6.1
SO4:  152.8        HCO3:  197.6       Cl:   69.1        NO3:  10.0         F:  2.1
Sum Cations:  469.6  Sum Anions:  431.9  Cations/Anions: 1.09   Tot. P:  17.0
Tot. Al:   37.0    Ext. Al:   2.0     Fe:    70.0      Mn:    0.0     SiO2:  0.91

ID: 1B3-017   Name: LITTLE ELK LAKE                    State: PA  Date: 12NOV84
Sample Type: REGULAR           Latitude: 41-45'30"N    Longitude: 75-56'30"W
Elevation:  409   Surface Temp:  8.9  Stratified: MIXED      Site Depth:   7.3
Lake Area:      19 Watershed Area:     207 WA/LA:     11.1 Hydro Type: DRAINAGE
Residence Time:  1.04  Secchi Depth:  1.9   Turbidity:   1.3     Color:   30
Closed pH: 6.89        Equil. pH: 8.01              ANC:  556.4         DOC:  5.00
Closed DIC:  8.63   Equil. DIC:  6.11    Meas. Cond: 100.3   Cal. Cond: 106.1
Ca:  446.1          Mg:  195.8        Na:  180.5          K:  67.0       NH4: 18.8
SO4:  183.0        HCO3:  512.7       Cl:  209.3        NO3:   2.3         F:  3.5
Sum Cations:  908.4  Sum Anions:  911.3  Cations/Anions: 1.00   Tot. P:  89.0
Tot. Al:   15.0    Ext. Al:   2.0     Fe:    80.0      Mn:  310.0     SiO2:  0.60

ID: 1B3-018   Name: CONKLIN POND                       State: NY  Date: 10NOV84
Sample Type: REGULAR           Latitude: 41-43'04"N    Longitude: 74-38'30"W
Elevation:  381   Surface Temp:  6.7  Stratified: MIXED      Site Depth:   0.9
Lake Area:      10 Watershed Area:     404 WA/LA:     42.5 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  0.9   Turbidity:   0.5     Color:   15
Closed pH: 6.68        Equil. pH: 7.16              ANC:  108.9         DOC:  4.90
Closed DIC:  1.71   Equil. DIC:  1.16    Meas. Cond:  68.4   Cal. Cond:  70.8
Ca:  210.3          Mg:  114.3        Na:  203.4          K:  29.7       NH4:  2.8
SO4:  190.5        HCO3:   89.2       Cl:  263.2        NO3:   1.8         F:  2.5
Sum Cations:  560.7  Sum Anions:  547.3  Cations/Anions: 1.02   Tot. P:  13.5
Tot. Al:   19.0    Ext. Al:   4.5     Fe:    20.0      Mn:    0.0     SiO2:  0.03

ID: 1B3-019   Name: HARTLEY POND                       State: PA  Date: 16NOV84
Sample Type: REGULAR           Latitude: 41-39'30"N    Longitude: 75-42'30"W
Elevation:  338   Surface Temp:  6.8  Stratified: MIXED      Site Depth:   7.0
Lake Area:      14 Watershed Area:     145 WA/LA:     10.7 Hydro Type: DRAINAGE
Residence Time:  1.03  Secchi Depth:  1.4   Turbidity:   1.5     Color:   35
Closed pH: 6.47        Equil. pH: 7.65              ANC:  218.7         DOC:  6.40
Closed DIC:  4.74   Equil. DIC:  2.23    Meas. Cond:  46.7   Cal. Cond:  50.2
Ca:  288.4          Mg:   63.3        Na:   37.4          K:  10.5       NH4: 25.5
SO4:  175.3        HCO3:  197.0       Cl:   27.4        NO3:   1.4         F:  2.4
Sum Cations:  425.4  Sum Anions:  403.6  Cations/Anions: 1.05   Tot. P:  42.0
Tot. Al:   40.0    Ext. Al:   3.0     Fe:   130.0      Mn:   80.0     SiO2:  1.02

ID: 1B3-020   Name: KIAMESHA LAKE                      State: NY  Date: 10NOV84
Sample Type: REGULAR           Latitude: 41-40'30"N    Longitude: 74-40'00"W
Elevation:  422   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   7.0
Lake Area:      59 Watershed Area:     249 WA/LA:      4.2 Hydro Type: DRAINAGE
Residence Time:  1.09  Secchi Depth:  1.0   Turbidity:   1.5     Color:   25
Closed pH: 6.85        Equil. pH: 7.64              ANC:  318.8         DOC:  4.10
Closed DIC:  4.74   Equil. DIC:  3.29    Meas. Cond: 116.3   Cal. Cond: 123.7
Ca:  333.3          Mg:  101.2        Na:  485.0          K:  25.1       NH4: 18.8
SO4:  169.7        HCO3:  285.9       Cl:  582.5        NO3:   0.3         F:  2.8
Sum Cations:  963.6  Sum Anions: 1041.4  Cations/Anions: 0.93   Tot. P:  52.0
Tot. Al:   12.0    Ext. Al:   1.0     Fe:    10.0      Mn:  250.0     SiO2:  0.60
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B3-021   Name: CORD POND                           State: PA  Date: 16NOV84
Sample Type: REGULAR            Latitude: 41-39'10"N    Longitude: 75-51'00"W
Elevation:  360   Surface Temp:  7.8  Stratified: MIXED      Site Depth:   7.3
Lake Area:      12 Watershed Area:      57 WA/LA:      4.8 Hydro Type: DRAINAGE
Residence Time:  2.03  Secchi Depth:  2.5   Turbidity:   1.7      Color:   15
Closed pH: 7.13          Equil. pH: 7.71             ANC:  382.7        DOC:  3.80
Closed DIC:  5.35   Equil. DIC:  4.23    Meas. Cond:  60.5   Cal. Cond:  62.8
Ca:  362.8          Mg:    93.0        Na:    43.5         K:  25.3      NH4: 23.8
SO4:  135.7        HCO3:  333.9        Cl:    58.1       NO3:   1.8        F:  2.5
Sum Cations:  548.5  Sum Anions:  532.5  Cations/Anions: 1.03   Tot. P:  21.0
Tot. Al:   16.0    Ext. Al:    0.0     Fe:    10.0      Mn:  180.0    SiO2:  0.84

ID: 1B3-022   Name: FEAGLES LAKE                        State: NY  Date: 15NOV84
Sample Type: REGULAR            Latitude: 41-36'15"N    Longitude: 75-02'50"W
Elevation:  223   Surface Temp:  3.8  Stratified: MIXED      Site Depth:   1.5
Lake Area:      12 Watershed Area:     106 WA/LA:      8.8 Hydro Type: RESERVOIR
Residence Time:  0.15  Secchi Depth:  0.5   Turbidity:   7.6      Color:   50
Closed pH: 7.55          Equil. pH: 7.63             ANC:  201.3        DOC: 11.20
Closed DIC:  2.25   Equil. DIC:  2.14    Meas. Cond: 113.8   Cal. Cond: 120.6
Ca:  274.9          Mg:   164.5        Na:   498.1         K:  22.0      NH4:  2.2
SO4:  205.1        HCO3:  146.5        Cl:   571.3       NO3:  28.8        F:  3.7
Sum Cations:  961.9  Sum Anions:  955.4  Cations/Anions: 1.01   Tot. P:  60.0
Tot. Al:   54.0    Ext. Al:    3.0     Fe:    20.0      Mn:    0.0    SiO2:  0.56

ID: 1B3-023   Name: (NO NAME)                           State: NY  Date: 06NOV84
Sample Type: REGULAR            Latitude: 41-37'40"N    Longitude: 73-37'30"W
Elevation:  294   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   3.4
Lake Area:       8 Watershed Area:      16 WA/LA:      1.9 Hydro Type: RESERVOIR
Residence Time:  1.13  Secchi Depth:  3.4   Turbidity:   1.2      Color:   15
Closed pH: 7.19          Equil. pH: 7.65             ANC:  281.9        DOC:  3.14
Closed DIC:  3.61   Equil. DIC:  3.09    Meas. Cond:  51.8   Cal. Cond:  55.8
Ca:  310.3          Mg:    66.4        Na:    60.2         K:  32.7      NH4:  1.2
SO4:  175.9        HCO3:  258.5        Cl:    33.8       NO3:   0.5        F:  1.9
Sum Cations:  470.8  Sum Anions:  471.4  Cations/Anions: 1.00   Tot. P:   7.7
Tot. Al:   36.3    Ext. Al:    7.2     Fe:    78.0      Mn:   23.0    SiO2:  1.33

ID: 1B3-025   Name: TROUT LAKE                          State: NY  Date: 10NOV84
Sample Type: REGULAR            Latitude: 41-35'10"N    Longitude: 74-40'50"W
Elevation:  446   Surface Temp:  7.7  Stratified: MIXED      Site Depth:   1.8
Lake Area:      19 Watershed Area:     122 WA/LA:      6.3 Hydro Type: RESERVOIR
Residence Time:  0.19  Secchi Depth:  1.8   Turbidity:   0.8      Color:   20
Closed pH: 6.03          Equil. pH: 6.58             ANC:   35.4        DOC:  3.30
Closed DIC:  1.04   Equil. DIC:  0.42    Meas. Cond:  20.7   Cal. Cond:  19.7
Ca:   82.8          Mg:    27.1        Na:    32.2         K:   5.9      NH4:  5.5
SO4:   93.7        HCO3:   26.4        Cl:    23.1       NO3:   0.4        F:  2.9
Sum Cations:  154.4  Sum Anions:  146.5  Cations/Anions: 1.05   Tot. P:  10.0
Tot. Al:   29.0    Ext. Al:    5.0     Fe:    80.0      Mn:   10.0    SiO2:  0.00

ID: 1B3-026   Name: GLENBURN POND                       State: PA  Date: 16NOV84
Sample Type: REGULAR            Latitude: 41-31'00"N    Longitude: 75-43'45"W
Elevation:  341   Surface Temp:  4.1  Stratified: MIXED      Site Depth:   1.4
Lake Area:      11 Watershed Area:    1981 WA/LA:    180.1 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  1.4   Turbidity:   2.9      Color:   30
Closed pH: 7.63          Equil. pH: 8.27             ANC: 1083.0        DOC:  3.60
Closed DIC: 13.38   Equil. DIC: 11.93    Meas. Cond: 329.4   Cal. Cond: 367.8
Ca: 1365.8          Mg:   278.0        Na:  1213.6         K:  60.6      NH4:  2.2
SO4:  514.3        HCO3:  951.7        Cl:  1572.7       NO3:  35.6        F:  4.0
Sum Cations: 2920.3  Sum Anions: 3081.4  Cations/Anions: 0.95   Tot. P: 125.0
Tot. Al:   42.0    Ext. Al:    1.0     Fe:    30.0      Mn:   10.0    SiO2:  4.23
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B3-027   Name: BEACON RESERVOIR                    State: NY  Date: 06NOV84
Sample Type: REGULAR               Latitude: 41-29'25"N   Longitude: 73-53'00"W
Elevation:  269   Surface Temp: 12.6  Stratified: MIXED      Site Depth:  10.7
Lake Area:       9 Watershed Area:    202 WA/LA:     21.5 Hydro Type: RESERVOIR
Residence Time:  0.55  Secchi Depth:  2.4   Turbidity:   0.8      Color:   15
Closed pH: 7.05          Equil. pH: 7.45              ANC:  191.8        DOC:  2.94
Closed DIC:  2.55   Equil. DIC:  2.13    Meas. Cond:  48.0   Cal. Cond:  51.9
Ca:  234.9           Mg:    95.0        Na:   83.0          K:  13.3      NH4:  0.9
SO4:  196.2        HCO3:  172.6        Cl:   53.3        NO3:   0.3         F:  3.0
Sum Cations:  427.2  Sum Anions:  425.6  Cations/Anions: 1.00   Tot. P:   8.6
Tot. Al:    26.1    Ext. Al:    7.5     Fe:    36.0     Mn:     0.0    SiO2:  2.09

ID: 1B3-028   Name: CRAFT POND                          State: PA  Date: 03NOV84
Sample Type: REGULAR               Latitude: 41-26'05"N   Longitude: 75-17'15"W
Elevation:  404   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   2.7
Lake Area:       7 Watershed Area:    777 WA/LA:    111.0 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  1.4   Turbidity:   2.7      Color:   35
Closed pH: 7.15          Equil. pH: 7.91              ANC:  507.4        DOC:  6.94
Closed DIC:  6[illegible]     Equil. DIC:  5.14    Meas. Cond:  80.5   Cal. Cond:  83.8
Ca:  495.5           Mg:   101.1        Na:  116.6          K:  36.0      NH4:  2.3
SO4:  131.5        HCO3:  451.2        Cl:  124.3        NO3:   0.4         F:  2.9
Sum Cations:  751.7  Sum Anions:  711.0  Cations/Anions: 1.06   Tot. P:  37.7
Tot. Al:    65.3    Ext. Al:    2.8     Fe:    52.0     Mn:     0.0    SiO2:  2.45

ID: 1B3-029   Name: JACOX POND                          State: NY  Date: 06NOV84
Sample Type: REGULAR               Latitude: 41-26'40"N   Longitude: 73-55'25"W
Elevation:  125   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   2.4
Lake Area:       5 Watershed Area:     41 WA/LA:      7.7 Hydro Type: DRAINAGE
Residence Time:  0.30  Secchi Depth:  0.9   Turbidity:   2.4      Color:   50
Closed pH: 6.69          Equil. pH: 7.84              ANC:  410.5        DOC:  8.02
Closed DIC:  6.94   Equil. DIC:  4.27    Meas. Cond:  52.3   Cal. Cond:  51.8
Ca:  282.7           Mg:   134.9        Na:   60.4          K:   8.3      NH4:  1.4
SO4:   67.4        HCO3:  361.3        Cl:   30.2        NO3:   0.6         F:  3.6
Sum Cations:  487.9  Sum Anions:  463.3  Cations/Anions: 1.05   Tot. P:  37.2
Tot. Al:    17.6    Ext. Al:    7.1     Fe:    74.0     Mn:     6.0    SiO2:  4.61

ID: 1B3-030   Name: ELSTONS POND                        State: PA  Date: 01NOV84
Sample Type: REGULAR               Latitude: 41-22'20"N   Longitude: 75-58'15"W
Elevation:  360   Surface Temp: 13.9  Stratified: MIXED      Site Depth:   1.2
Lake Area:      12 Watershed Area:    272 WA/LA:     22.9 Hydro Type: RESERVOIR
Residence Time:  0.06  Secchi Depth:  1.1   Turbidity:   3.6      Color:   30
Closed pH: 7.11          Equil. pH: 7.84              ANC:  413.4        DOC:  3.80
Closed DIC:  5.53   Equil. DIC:  4.56    Meas. Cond:  87.3   Cal. Cond:  93.1
Ca:  426.6           Mg:   128.3        Na:  191.5          K:  30.0      NH4:  6.0
SO4:  235.6        HCO3:  369.6        Cl:  166.1        NO3:   6.4         F:  2.7
Sum Cations:  782.6  Sum Anions:  780.8  Cations/Anions: 1.00   Tot. P:  57.2
Tot. Al:   113.2    Ext. Al:   17.0     Fe:   270.0     Mn:   316.0    SiO2:  2.50

ID: 1B3-032   Name: WIXON POND                          State: NY  Date: 06NOV84
Sample Type: REGULAR               Latitude: 41-23'45"N   Longitude: 73-44'05"W
Elevation:  219   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   3.6
Lake Area:      10 Watershed Area:     62 WA/LA:      6.2 Hydro Type: DRAINAGE
Residence Time:  0.53  Secchi Depth:  1.5   Turbidity:   4.7      Color:   45
Closed pH: 7.21          Equil. pH: 7.73              ANC:  336.7        DOC:  6.10
Closed DIC:  4.17   Equil. DIC:  3.55    Meas. Cond:  63.6   Cal. Cond:  67.9
Ca:  289.6           Mg:   147.2        Na:  142.0          K:  25.9      NH4:  1.3
SO4:  158.3        HCO3:  280.9        Cl:  109.4        NO3:   0.3         F:  2.9
Sum Cations:  606.2  Sum Anions:  552.2  Cations/Anions: 1.10   Tot. P:  23.9
Tot. Al:    19.1    Ext. Al:    9.5     Fe:   204.0     Mn:    45.0    SiO2:  3.66
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B3-033   Name: (NO NAME)                          State: NY  Date: 10NOV84
Sample Type: REGULAR             Latitude: 41-20'15"N    Longitude: 74-32'15"W
Elevation:  149   Surface Temp:  9.0  Stratified: MIXED      Site Depth:   1.5
Lake Area:      6 Watershed Area:      88 WA/LA:    14.9 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  1.5   Turbidity:   1.6     Color:   25
Closed pH: 8.24        Equil. pH: 8.52              ANC: 1412.0        DOC:  6.20
Closed DIC: 16.64   Equil. DIC: 15.60    Meas. Cond: 216.5   Cal. Cond: 230.9
Ca: 1023.4           Mg:  310.9        Na:  729.5          K:  21.2       NH4:  1.1
SO4:  108.7        HCO3: 1263.8       Cl:  647.7        NO3:   1.4          F:  5.4
Sum Cations: 2086.2  Sum Anions: 2036.1  Cations/Anions: 1.02   Tot. P:  25.0
Tot. Al:   16.0    Ext. Al:    4.0    Fe:  100.0      Mn:    0.0    SiO2:  0.44
```

```
ID: 1B3-034   Name: BARGER LAKE                        State: NY  Date: 06NOV84
Sample Type: REGULAR             Latitude: 41-21'40"N    Longitude: 73-48'45"W
Elevation:  197   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   3.1
Lake Area:     12 Watershed Area:     497 WA/LA:    40.4 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  1.4   Turbidity:   2.3     Color:   93
Closed pH: 7.23        Equil. pH: 8.07              ANC:  719.8        DOC: 11.65
Closed DIC:  9.18   Equil. DIC:  7.36    Meas. Cond: 130.0   Cal. Cond: 141.5
Ca:  615.8           Mg:  326.2        Na:  311.0          K:  29.4       NH4:  7.8
SO4:  120.7        HCO3:  619.5       Cl:  414.3        NO3:   1.9          F:  3.4
Sum Cations: 1290.2  Sum Anions: 1161.4  Cations/Anions: 1.11   Tot. P:  23.4
Tot. Al:   24.6    Ext. Al:   10.5    Fe:  158.5      Mn:   27.5    SiO2:  8.38
```

```
ID: 1B3-036   Name: NO NAME(LAKE JAMIE)                State: PA  Date: 31OCT84
Sample Type: REGULAR             Latitude: 41-15'00"N    Longitude: 74-54'25"W
Elevation:  320   Surface Temp: 15.0  Stratified: MIXED      Site Depth:   1.2
Lake Area:     16 Watershed Area:      65 WA/LA:     4.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.2   Turbidity:   1.1     Color:   20
Closed pH: 6.64        Equil. pH: 7.10              ANC:   96.5        DOC:  5.99
Closed DIC:  1.35   Equil. DIC:  1.00    Meas. Cond:  50.5   Cal. Cond:  53.4
Ca:  174.4           Mg:   96.6        Na:  151.5          K:   7.9       NH4:  1.3
SO4:  127.5        HCO3:   91.9       Cl:  197.4        NO3:   0.8          F:  2.5
Sum Cations:  432.0  Sum Anions:  420.1  Cations/Anions: 1.03   Tot. P:  21.6
Tot. Al:   36.5    Ext. Al:    0.8    Fe:   27.0      Mn:   17.0    SiO2:  0.16
```

```
ID: 1B3-040   Name: KITCHELL LAKE                      State: NJ  Date: 10NOV84
Sample Type: REGULAR             Latitude: 41-05'15"N    Longitude: 74-21'15"W
Elevation:  242   Surface Temp:  9.3  Stratified: MIXED      Site Depth:   1.5
Lake Area:      8 Watershed Area:     220 WA/LA:    26.5 Hydro Type: RESERVOIR
Residence Time:  0.05  Secchi Depth:  1.5   Turbidity:   2.5     Color:   20
Closed pH: 7.21        Equil. pH: 7.84              ANC:  400.0        DOC:  3.30
Closed DIC:  5.35   Equil. DIC:  4.47    Meas. Cond:  84.3   Cal. Cond:  87.0
Ca:  291.9           Mg:  185.1        Na:  253.2          K:  17.9       NH4:  7.2
SO4:  143.2        HCO3:  349.9       Cl:  227.4        NO3:   8.9          F:  4.8
Sum Cations:  755.4  Sum Anions:  734.7  Cations/Anions: 1.03   Tot. P:  23.0
Tot. Al:   37.0    Ext. Al:    1.0    Fe:  110.0      Mn:   60.0    SiO2:  2.55
```

```
ID: 1B3-041   Name: EAST STROUDSBURG RESERV.           State: PA  Date: 01NOV84
Sample Type: REGULAR             Latitude: 41-04'00"N    Longitude: 75-10'00"W
Elevation:  271   Surface Temp: 14.6  Stratified: MIXED      Site Depth:   7.6
Lake Area:     22 Watershed Area:     326 WA/LA:    15.2 Hydro Type: RESERVOIR
Residence Time:  0.44  Secchi Depth:  3.7   Turbidity:   1.4     Color:    5
Closed pH: 6.84        Equil. pH: 7.14              ANC:   97.2        DOC:  2.48
Closed DIC:  1.35   Equil. DIC:  1.05    Meas. Cond:  40.2   Cal. Cond:  41.9
Ca:  161.4           Mg:   78.7        Na:   73.5          K:   8.9       NH4:  1.2
SO4:  199.0        HCO3:   94.5       Cl:   43.8        NO3:   0.3          F:  2.7
Sum Cations:  323.8  Sum Anions:  340.4  Cations/Anions: 0.95   Tot. P:  12.2
Tot. Al:   30.2    Ext. Al:    8.5    Fe:   44.0      Mn:   57.0    SiO2:  1.11
```

(continued)

TABLE 3-1 (continued)

```
ID: 183-042   Name: LAKE STOCKHOLM                          State: NJ  Date: 10NOV84
Sample Type: REGULAR              Latitude: 41-04'05"N    Longitude: 74-31'45"W
Elevation:  335   Surface Temp:  9.8  Stratified: MIXED      Site Depth:   3.7
Lake Area:      13 Watershed Area:     158 WA/LA:     12.4 Hydro Type: RESERVOIR
Residence Time:  0.25  Secchi Depth:  3.7   Turbidity:   1.0     Color:   10
Closed pH: 8.13          Equil. pH: 8.20              ANC:  770.7         DOC:  2.80
Closed DIC:  9.17   Equil. DIC:  8.49    Meas. Cond: 263.6   Cal. Cond: 283.5
Ca:  735.5            Mg:  398.1         Na: 1174.5          K:  20.5       NH4:  1.1
SO4:  239.4        HCO3:  678.2        Cl: 1419.0         NO3:    1.5          F:  5.6
Sum Cations: 2329.8  Sum Anions: 2347.0  Cations/Anions: 0.99   Tot. P:  13.0
Tot. Al:    46.0    Ext. Al:    5.0     Fe:    10.0      Mn:     0.0    SiO2:  0.27

ID: 183-043   Name: TROUT LAKE                              State: PA  Date: 01NOV84
Sample Type: REGULAR              Latitude: 41-00'15"N    Longitude: 75-20'30"W
Elevation:  287   Surface Temp: 14.7  Stratified: MIXED      Site Depth:   4.2
Lake Area:      37 Watershed Area:     987 WA/LA:     26.7 Hydro Type: RESERVOIR
Residence Time:  0.14  Secchi Depth:  4.4   Turbidity:   0.9     Color:   15
Closed pH: 6.86          Equil. pH: 7.36              ANC:  152.0         DOC:  2.50
Closed DIC:  2.19   Equil. DIC:  1.71    Meas. Cond:  34.9   Cal. Cond:  36.4
Ca:  147.1            Mg:   75.6         Na:   72.9          K:  10.7       NH4:  1.2
SO4:  100.1        HCO3:  145.0        Cl:   58.6         NO3:    0.0          F:  2.1
Sum Cations:  307.6  Sum Anions:  305.9  Cations/Anions: 1.01   Tot. P:  14.4
Tot. Al:    20.4    Ext. Al:    6.0     Fe:    87.0      Mn:   122.0    SiO2:  1.86

ID: 183-044   Name: HIGH CREST LAKE                         State: NJ  Date: 10NOV84
Sample Type: REGULAR              Latitude: 41-01'10"N    Longitude: 74-22'30"W
Elevation:  194   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   3.7
Lake Area:      16 Watershed Area:     171 WA/LA:     10.6 Hydro Type: RESERVOIR
Residence Time:  0.29  Secchi Depth:  1.8   Turbidity:   3.1     Color:   10
Closed pH: 7.71          Equil. pH: 8.15              ANC:  670.0         DOC:  4.30
Closed DIC:  8.22   Equil. DIC:  7.53    Meas. Cond: 179.9   Cal. Cond: 189.6
Ca:  560.9            Mg:  300.2         Na:  689.9          K:  25.1       NH4:  3.9
SO4:  196.7        HCO3:  590.9        Cl:  804.0         NO3:    0.0          F:  3.1
Sum Cations: 1580.0  Sum Anions: 1595.9  Cations/Anions: 0.99   Tot. P:  29.0
Tot. Al:    37.0    Ext. Al:    4.0     Fe:    80.0      Mn:    40.0    SiO2:  1.46

ID: 183-045   Name: STAG POND                               State: NJ  Date: 18NOV84
Sample Type: REGULAR              Latitude: 40-59'34"N    Longitude: 74-41'49"W
Elevation:  247   Surface Temp:  7.3  Stratified: MIXED      Site Depth:   7.0
Lake Area:      11 Watershed Area:      85 WA/LA:      7.9 Hydro Type: DRAINAGE
Residence Time:  0.70  Secchi Depth:  2.5   Turbidity:   0.7     Color:   28
Closed pH: 7.03          Equil. pH: 7.91              ANC:  417.8         DOC:  3.95
Closed DIC:  5.43   Equil. DIC:  4.57    Meas. Cond:  73.4   Cal. Cond:  77.4
Ca:  396.0            Mg:  211.0         Na:   66.1          K:  14.7       NH4:  0.6
SO4:  221.5        HCO3:  373.4        Cl:   46.4         NO3:    0.3          F:  4.7
Sum Cations:  688.4  Sum Anions:  646.9  Cations/Anions: 1.06   Tot. P:  15.0
Tot. Al:    11.0    Ext. Al:    1.5     Fe:    25.0      Mn:     0.0    SiO2:  2.75

ID: 183-048   Name: (NO NAME)                               State: NJ  Date: 10NOV84
Sample Type: REGULAR              Latitude: 40-52'15"N    Longitude: 74-37'45"W
Elevation:  216   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   7.3
Lake Area:      17 Watershed Area:      73 WA/LA:      4.4 Hydro Type: RESERVOIR
Residence Time:  1.18  Secchi Depth:  1.7   Turbidity:   1.4     Color:   20
Closed pH: 8.15          Equil. pH: 8.79              ANC: 2187.0         DOC:  3.30
Closed DIC: 26.54   Equil. DIC: 23.90    Meas. Cond: 324.7   Cal. Cond: 361.0
Ca: 1378.7            Mg: 1147.5         Na:  682.1          K:  24.0       NH4:  5.0
SO4:  388.3        HCO3: 1995.4        Cl:  789.9         NO3:    1.8          F:  2.8
Sum Cations: 3237.4  Sum Anions: 3200.4  Cations/Anions: 1.01   Tot. P:  23.0
Tot. Al:    11.0    Ext. Al:    1.0     Fe:     0.0      Mn:     0.0    SiO2:  6.32
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B3-051   Name: BARRETT POND                        State: NY  Date: 06NOV84
Sample Type: REGULAR            Latitude: 41-26'04"N    Longitude: 73-44'25"W
Elevation:  237   Surface Temp: 12.9  Stratified: MIXED     Site Depth:   9.6
Lake Area:      30 Watershed Area:     171 WA/LA:      5.8 Hydro Type: DRAINAGE
Residence Time:  1.50  Secchi Depth:  3.6   Turbidity:   0.5     Color:    15
Closed pH: 7.08        Equil. pH: 7.59              ANC:  299.1        DOC:  2.97
Closed DIC:  3.48   Equil. DIC:  2.90    Meas. Cond:  61.4   Cal. Cond:  65.1
Ca:  269.7         Mg:  155.5       Na:  101.9        K:  15.0      NH4:   1.4
SO4:  213.8      HCO3:  234.8      Cl:    90.0      NO3:   0.0        F:   1.7
Sum Cations:  543.5  Sum Anions:  540.5  Cations/Anions: 1.01   Tot. P:   9.3
Tot. Al:     8.6    Ext. Al:    7.0    Fe:     0.0     Mn:   10.0    SiO2:  2.45

ID: 1B3-052   Name: (NO NAME)                           State: NY  Date: 10NOV84
Sample Type: REGULAR            Latitude: 41-29'23"N    Longitude: 74-32'20"W
Elevation:  381   Surface Temp:  8.7  Stratified: MIXED     Site Depth:   2.1
Lake Area:      17 Watershed Area:      88 WA/LA:      5.1 Hydro Type: DRAINAGE
Residence Time:  0.30  Secchi Depth:  2.1   Turbidity:   1.6     Color:    20
Closed pH: 6.32        Equil. pH: 6.48              ANC:   19.1        DOC:  3.30
Closed DIC:  0.26   Equil. DIC:  0.28    Meas. Cond:  57.1   Cal. Cond:  58.6
Ca:  106.8         Mg:   82.3       Na:  237.9        K:  16.9      NH4:   1.1
SO4:  164.3      HCO3:   14.3      Cl:  267.1       NO3:   0.0        F:   2.6
Sum Cations:  446.1  Sum Anions:  448.3  Cations/Anions: 0.99   Tot. P:  31.0
Tot. Al:    46.0    Ext. Al:    3.0    Fe:    50.0     Mn:  160.0    SiO2:  0.37

ID: 1B3-053   Name: NO NAME(SNOWFLAKE LAKE)             State: PA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 41-54'18"N    Longitude: 75-24'37"W
Elevation:  552   Surface Temp:  9.5  Stratified: MIXED     Site Depth:   1.8
Lake Area:       5 Watershed Area:      73 WA/LA:     14.0 Hydro Type: RESERVOIR
Residence Time:  0.11  Secchi Depth:  1.5   Turbidity:   2.4     Color:    30
Closed pH: 6.77        Equil. pH: 7.60              ANC:  253.1        DOC:  5.67
Closed DIC:  3.81   Equil. DIC:  2.68    Meas. Cond:  39.8   Cal. Cond:  40.9
Ca:  281.7         Mg:   42.4       Na:   28.2        K:   7.2      NH4:   1.3
SO4:  104.4      HCO3:  228.5      Cl:    15.6      NO3:   0.0        F:   1.5
Sum Cations:  361.0  Sum Anions:  350.2  Cations/Anions: 1.03   Tot. P:  25.1
Tot. Al:    64.7    Ext. Al:    3.0    Fe:    77.0     Mn:    4.0    SiO2:  1.15

ID: 1B3-055   Name: SILVER LAKE                         State: NY  Date: 15NOV84
Sample Type: REGULAR            Latitude: 42-19'34"N    Longitude: 74-10'05"W
Elevation:  567   Surface Temp:  3.2  Stratified: MIXED     Site Depth:   0.9
Lake Area:       6 Watershed Area:     344 WA/LA:     61.4 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  0.9   Turbidity:   0.9     Color:    45
Closed pH: 6.90        Equil. pH: 7.40              ANC:  175.5        DOC:  2.90
Closed DIC:  2.48   Equil. DIC:  1.96    Meas. Cond:  95.6   Cal. Cond:  97.7
Ca:  339.3         Mg:  171.1       Na:  210.1        K:  18.2      NH4:  38.8
SO4:  313.5      HCO3:  149.3      Cl:  261.8       NO3:  26.9        F:   1.2
Sum Cations:  777.6  Sum Anions:  752.8  Cations/Anions: 1.03   Tot. P:  17.0
Tot. Al:    62.0    Ext. Al:    2.0    Fe:   660.0     Mn:  490.0    SiO2:  3.07

ID: 1B3-056   Name: RIGA LAKE                           State: CT  Date: 08NOV84
Sample Type: REGULAR            Latitude: 42-01'18"N    Longitude: 73-29'00"W
Elevation:  533   Surface Temp:  5.4  Stratified: MIXED     Site Depth:   3.2
Lake Area:      64 Watershed Area:     619 WA/LA:      9.7 Hydro Type: DRAINAGE
Residence Time:  0.28  Secchi Depth:  3.2   Turbidity:   0.2     Color:    10
Closed pH: 5.23        Equil. pH: 5.19              ANC:    0.0        DOC:  0.40
Closed DIC:  0.21   Equil. DIC:  0.25    Meas. Cond:  21.4   Cal. Cond:  21.6
Ca:   57.9         Mg:   29.6       Na:   27.8        K:   3.3      NH4:   2.8
SO4:  124.7      HCO3:    1.4      Cl:    19.7      NO3:   8.9        F:   2.4
Sum Cations:  128.5  Sum Anions:  157.1  Cations/Anions: 0.82   Tot. P:   4.0
Tot. Al:   128.0    Ext. Al: 116.0    Fe:    30.0     Mn:  160.0    SiO2:  1.13
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B3-057   Name: TYRRELL LAKE                          State: NY  Date: 06NOV84
Sample Type: REGULAR             Latitude: 41-45'25"N   Longitude: 73-44'58"W
Elevation:  124   Surface Temp: 12.0  Stratified: MIXED    Site Depth:   7.6
Lake Area:      17 Watershed Area:     243 WA/LA:    14.2 Hydro Type: DRAINAGE
Residence Time:  0.58  Secchi Depth:  2.4   Turbidity:    2.2      Color:   25
Closed pH: 6.98        Equil. pH: 7.90               ANC:  439.5        DOC:  4.24
Closed DIC:  6.14   Equil. DIC:  4.76     Meas. Cond:  76.9   Cal. Cond:  83.0
Ca:  456.6          Mg:  150.5       Na:   102.4          K:  12.2       NH4:   5.1
SO4:  249.3      HCO3:  388.2       Cl:    53.6        NO3:    0.2          F:   1.9
Sum Cations:  726.9  Sum Anions:  693.8  Cations/Anions: 1.05   Tot. P:  15.1
Tot. Al:     4.2    Ext. Al:    8.9    Fe:      7.0     Mn:  115.0    SiO2:  4.55

ID: 1B3-058   Name: CLOVE ACRES LAKE                      State: NJ  Date: 10NOV84
Sample Type: REGULAR             Latitude: 41-12'53"N   Longitude: 74-36'44"W
Elevation:  131   Surface Temp:  8.3  Stratified: MIXED    Site Depth:   2.1
Lake Area:      14 Watershed Area:    5009 WA/LA:   363.0 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  1.4   Turbidity:    4.3      Color:   20
Closed pH: 7.68        Equil. pH: 8.57               ANC: 1313.0        DOC:  3.30
Closed DIC: 16.42   Equil. DIC: 14.76     Meas. Cond: 249.2   Cal. Cond: 269.7
Ca: 1383.2          Mg:  348.8       Na:   475.5          K:  59.3       NH4:  20.0
SO4:  429.9      HCO3: 1197.4       Cl:   658.7        NO3:   12.3          F:   2.7
Sum Cations: 2286.8  Sum Anions: 2305.3  Cations/Anions: 0.99   Tot. P:  65.0
Tot. Al:    99.0    Ext. Al:    1.0    Fe:    130.0     Mn:  110.0    SiO2:  5.10

ID: 1B3-059   Name: ISLAND POND                           State: NY  Date: 10NOV84
Sample Type: REGULAR             Latitude: 41-15'26"N   Longitude: 74-08'25"W
Elevation:  296   Surface Temp: 10.1  Stratified: STRONG   Site Depth:  30.5
Lake Area:      21 Watershed Area:     414 WA/LA:    19.7 Hydro Type: DRAINAGE
Residence Time:  1.33  Secchi Depth:  2.6   Turbidity:    0.7      Color:   30
Closed pH: 5.09        Equil. pH: 5.17               ANC:  -13.1        DOC:  3.60
Closed DIC:  0.69   Equil. DIC:  0.15     Meas. Cond:  34.1   Cal. Cond:  35.8
Ca:  116.3          Mg:   61.7       Na:    49.6          K:   4.3       NH4:   0.6
SO4:  194.7      HCO3:    2.2       Cl:    48.0        NO3:    0.2          F:   4.8
Sum Cations:  241.6  Sum Anions:  249.8  Cations/Anions: 0.97   Tot. P:  11.0
Tot. Al:   145.0    Ext. Al:   93.0    Fe:     70.0     Mn:   80.0    SiO2:  2.69

ID: 1B3-060   Name: SLY LAKE                              State: PA  Date: 03NOV84
Sample Type: REGULAR             Latitude: 41-49'25"N   Longitude: 75-20'14"W
Elevation:  459   Surface Temp: 11.9  Stratified: WEAK     Site Depth:  16.8
Lake Area:      23 Watershed Area:     135 WA/LA:     5.9 Hydro Type: DRAINAGE
Residence Time:  2.43  Secchi Depth:  4.2   Turbidity:    0.5      Color:   15
Closed pH: 6.92        Equil. pH: 7.44               ANC:  196.0        DOC:  2.69
Closed DIC:  2.82   Equil. DIC:  2.16     Meas. Cond:  42.8   Cal. Cond:  44.6
Ca:  231.9          Mg:   50.3       Na:    66.5          K:  13.8       NH4:   1.1
SO4:  147.2      HCO3:  180.0       Cl:    48.9        NO3:    0.0          F:   2.3
Sum Cations:  363.7  Sum Anions:  378.6  Cations/Anions: 0.96   Tot. P:   7.2
Tot. Al:    27.9    Ext. Al:    3.4    Fe:      6.0     Mn:   70.0    SiO2:  0.34

ID: 1B3-062   Name: BASSETT POND                          State: PA  Date: 16NOV84
Sample Type: REGULAR             Latitude: 41-35'33"N   Longitude: 75-42'40"W
Elevation:  362   Surface Temp:  6.2  Stratified: MIXED    Site Depth:   5.1
Lake Area:      16 Watershed Area:      98 WA/LA:     6.0 Hydro Type: DRAINAGE
Residence Time:  1.20  Secchi Depth:  2.4   Turbidity:    2.8      Color:   30
Closed pH: 7.10        Equil. pH: 7.82               ANC:  378.3        DOC:  5.10
Closed DIC:  5.18   Equil. DIC:  3.99     Meas. Cond:  98.2   Cal. Cond: 103.3
Ca:  445.6          Mg:  100.4       Na:   271.0          K:  32.7       NH4:  17.2
SO4:  194.5      HCO3:  321.7       Cl:   310.3        NO3:    6.2          F:   2.7
Sum Cations:  867.0  Sum Anions:  835.8  Cations/Anions: 1.04   Tot. P:  40.0
Tot. Al:    33.0    Ext. Al:    1.0    Fe:    120.0     Mn:  220.0    SiO2:  0.86
```

(continued)

TABLE 3-1 (continued)

```
ID: 1B3-064   Name: POCANTICO LAKE                   State: NY  Date: 06NOV84
Sample Type: REGULAR            Latitude: 41-07'22"N    Longitude: 73-50'00"W
Elevation:   67   Surface Temp: 13.3  Stratified: MIXED      Site Depth:    6.4
Lake Area:     25 Watershed Area:    3170 WA/LA:    124.8 Hydro Type: RESERVOIR
Residence Time:  0.06  Secchi Depth:  0.4   Turbidity:  17.0      Color:    60
Closed pH: 7.29          Equil. pH: 8.29             ANC: 1080.8        DOC:  6.74
Closed DIC: 14.31   Equil. DIC: 10.55    Meas. Cond: 283.3   Cal. Cond: 307.9
Ca: 1099.3           Mg:  549.5        Na:  846.5          K: 118.5      NH4: 11.3
SO4:  429.8       HCO3:  961.0       Cl: 1071.0        NO3:  30.5          F:  4.1
Sum Cations: 2625.2  Sum Anions: 2498.2  Cations/Anions: 1.05    Tot. P: 118.2
Tot. Al:  657.3    Ext. Al:   10.1     Fe:  148.0      Mn:  100.0     SiO2:  6.59

ID: 1B3-066   Name: SOLON POND                       State: NY  Date: 15NOV84
Sample Type: REGULAR            Latitude: 42-37'06"N    Longitude: 75-55'28"W
Elevation:  439   Surface Temp:   3.8  Stratified: MIXED      Site Depth:    3.3
Lake Area:     15 Watershed Area:     425 WA/LA:     28.1 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  2.4   Turbidity:   2.8      Color:    35
Closed pH: 7.42          Equil. pH: 8.24             ANC:  713.3        DOC:  5.20
Closed DIC:  8.75   Equil. DIC:  7.51    Meas. Cond: 105.7   Cal. Cond: 112.4
Ca:  609.3           Mg:  222.9        Na:  145.7          K:  61.4      NH4:  3.9
SO4:  139.3       HCO3:  615.9       Cl:  166.4        NO3:   9.0          F:  4.4
Sum Cations: 1043.2  Sum Anions:  936.5  Cations/Anions: 1.11    Tot. P:  33.0
Tot. Al:   48.0    Ext. Al:    3.0     Fe:  290.0      Mn:   60.0     SiO2:  3.61

ID: 1B3-067   Name: BASS LAKE                        State: NJ  Date: 18NOV84
Sample Type: REGULAR            Latitude: 41-01'33"N    Longitude: 74-57'12"W
Elevation:  233   Surface Temp:   4.7  Stratified: MIXED      Site Depth:    1.6
Lake Area:      6 Watershed Area:    1479 WA/LA:    268.9 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.5   Turbidity:   2.2      Color:    25
Closed pH: 7.44          Equil. pH: 7.85             ANC:  409.9        DOC:  2.90
Closed DIC:  4.60   Equil. DIC:  4.55    Meas. Cond: 104.6   Cal. Cond: 116.3
Ca:  515.0           Mg:  177.7        Na:  202.7          K:  28.4      NH4:  0.0
SO4:  312.7       HCO3:  334.2       Cl:  313.7        NO3:   0.0          F:  2.8
Sum Cations:  923.8  Sum Anions:  964.0  Cations/Anions: 0.96    Tot. P:  24.0
Tot. Al:   38.0    Ext. Al:    1.0     Fe:  120.0      Mn:   10.0     SiO2:  2.57

ID: 1B3-068   Name: HOLP POND                        State: NY  Date: 15NOV84
Sample Type: REGULAR            Latitude: 41-52'43"N    Longitude: 74-59'58"W
Elevation:  556   Surface Temp:   1.8  Stratified: MIXED      Site Depth:    1.5
Lake Area:     12 Watershed Area:     140 WA/LA:     12.0 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  1.5   Turbidity:   2.0      Color:    45
Closed pH: 7.07          Equil. pH: 7.53             ANC:  198.6        DOC:  6.20
Closed DIC:  2.49   Equil. DIC:  2.05    Meas. Cond:  33.2   Cal. Cond:  32.7
Ca:  226.5           Mg:   49.4        Na:   23.9          K:   9.7      NH4:  2.2
SO4:   73.9       HCO3:  155.8       Cl:   19.2        NO3:   0.1          F:  1.6
Sum Cations:  312.0  Sum Anions:  250.8  Cations/Anions: 1.24    Tot. P:  27.0
Tot. Al:   19.0    Ext. Al:    2.0     Fe:   80.0      Mn:   10.0     SiO2:  0.64

ID: 1C1-001   Name: LAKE ABENIKI                     State: NH  Date: 18OCT84
Sample Type: REGULAR            Latitude: 44-52'40"N    Longitude: 71-18'00"W
Elevation:  680   Surface Temp:   8.1  Stratified: MIXED      Site Depth:    2.1
Lake Area:      7 Watershed Area:     311 WA/LA:     45.7 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  0.2   Turbidity:  11.3      Color:    65
Closed pH: 6.61          Equil. pH: 7.64             ANC:  261.5        DOC:  4.32
Closed DIC:  4.80   Equil. DIC:  2.81    Meas. Cond:  44.0   Cal. Cond:  43.7
Ca:  258.8           Mg:   74.1        Na:   49.9          K:  14.5      NH4:  5.1
SO4:  112.1       HCO3:  222.5       Cl:   11.3        NO3:   8.0          F:  2.0
Sum Cations:  402.6  Sum Anions:  356.1  Cations/Anions: 1.13    Tot. P:  59.2
Tot. Al:  405.4    Ext. Al:   16.6     Fe:  194.0      Mn:  150.0     SiO2:  5.26
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-002   Name: EDDY POND                            State: ME  Date: 18OCT84
Sample Type: REGULAR              Latitude: 44-55'15"N    Longitude: 70-31'32"W
Elevation:  797   Surface Temp:  9.1  Stratified: MIXED      Site Depth:   6.7
Lake Area:        4 Watershed Area:     158 WA/LA:     37.6 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  4.0   Turbidity:   0.5      Color:    15
Closed pH: 6.34        Equil. pH: 6.70               ANC:   33.7         DOC:  2.99
Closed DIC:  0.59   Equil. DIC:  0.47    Meas. Cond:  15.2   Cal. Cond:  17.1
Ca:   81.8           Mg:   24.4       Na:   29.2          K:   3.7       NH4:  1.2
SO4:    91.2      HCO3:   24.9      Cl:     6.7       NO3:   0.3           F:  1.8
Sum Cations:  140.7  Sum Anions:  124.9  Cations/Anions: 1.13   Tot. P:  17.2
Tot. Al:    90.8   Ext. Al:  13.0    Fe:    19.0      Mn:     4.0    SiO2:  0.78

ID: 1C1-003   Name: SOUTH POND                           State: ME  Date: 18OCT84
Sample Type: REGULAR              Latitude: 44-52'00"N    Longitude: 70-33'30"W
Elevation:  663   Surface Temp: 10.0  Stratified: MIXED      Site Depth:   1.8
Lake Area:        6 Watershed Area:      31 WA/LA:      5.2 Hydro Type: DRAINAGE
Residence Time:  0.23  Secchi Depth:  1.8   Turbidity:   0.9      Color:    10
Closed pH: 5.91        Equil. pH: 6.37               ANC:   14.0         DOC:  2.53
Closed DIC:  0.40   Equil. DIC:  0.30    Meas. Cond:  13.3   Cal. Cond:  13.5
Ca:   56.2           Mg:   18.8       Na:   22.0          K:   3.8       NH4:  0.8
SO4:    76.5      HCO3:    8.4      Cl:     8.3       NO3:   0.2           F:  1.3
Sum Cations:  103.0  Sum Anions:   94.7  Cations/Anions: 1.09   Tot. P:   5.2
Tot. Al:  115.6    Ext. Al:  22.4    Fe:    42.0      Mn:    10.0    SiO2:  0.71

ID: 1C1-004   Name: LONG POND                            State: NH  Date: 25OCT84
Sample Type: REGULAR              Latitude: 44-03'00"N    Longitude: 71-53'30"W
Elevation:  665   Surface Temp:  9.4  Stratified: MIXED      Site Depth:   1.8
Lake Area:       39 Watershed Area:     557 WA/LA:     14.5 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  1.4   Turbidity:   2.1      Color:    35
Closed pH: 6.54        Equil. pH: 7.15               ANC:   92.7         DOC:  5.97
Closed DIC:  1.48   Equil. DIC:  0.99    Meas. Cond:  22.7   Cal. Cond:  23.4
Ca:  122.0           Mg:   39.4       Na:   30.3          K:  12.2       NH4:  1.2
SO4:    91.1      HCO3:   76.4      Cl:     8.0       NO3:   0.2           F:  1.8
Sum Cations:  205.3  Sum Anions:  177.6  Cations/Anions: 1.16   Tot. P:  11.5
Tot. Al:  118.4    Ext. Al:   8.7    Fe:    74.0      Mn:    16.0    SiO2:  0.86

ID: 1C1-008   Name: SANDY RIVER PONDS (MID)              State: ME  Date: 18OCT84
Sample Type: REGULAR              Latitude: 44-53'50"N    Longitude: 70-33'30"W
Elevation:  518   Surface Temp: 10.2  Stratified: MIXED      Site Depth:  13.4
Lake Area:       28 Watershed Area:     909 WA/LA:     32.7 Hydro Type: DRAINAGE
Residence Time:  0.29  Secchi Depth:  1.7   Turbidity:   1.4      Color:    30
Closed pH: 6.80        Equil. pH: 7.05               ANC:   75.4         DOC:  3.78
Closed DIC:  0.90   Equil. DIC:  0.90    Meas. Cond:  27.9   Cal. Cond:  29.9
Ca:  120.1           Mg:   36.5       Na:   85.3          K:   8.0       NH4:  0.9
SO4:   109.9      HCO3:   64.7      Cl:    51.6       NO3:   0.7           F:  2.4
Sum Cations:  250.9  Sum Anions:  229.4  Cations/Anions: 1.09   Tot. P:  13.5
Tot. Al:    62.0   Ext. Al:   9.4    Fe:   102.0      Mn:     5.0    SiO2:  3.43

ID: 1C1-009   Name: UPPER BAKER POND                     State: NH  Date: 25OCT84
Sample Type: REGULAR              Latitude: 43-54'30"N    Longitude: 71-59'30"W
Elevation:  275   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   5.5
Lake Area:       67 Watershed Area:    2647 WA/LA:     39.6 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  3.7   Turbidity:   0.6      Color:    25
Closed pH: 6.77        Equil. pH: 7.19               ANC:  120.0         DOC:  4.80
Closed DIC:  1.47   Equil. DIC:  1.30    Meas. Cond:  29.2   Cal. Cond:  30.5
Ca:  139.9           Mg:   44.3       Na:   61.0          K:  19.7       NH4:  1.1
SO4:   105.5      HCO3:   91.2      Cl:    33.2       NO3:   0.6           F:  2.4
Sum Cations:  266.1  Sum Anions:  233.0  Cations/Anions: 1.14   Tot. P:   6.2
Tot. Al:    52.6   Ext. Al:   7.9    Fe:    39.0      Mn:     8.0    SiO2:  2.18
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-010   Name: (BIG) BERRY POND                   State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-30'20"N    Longitude: 70-02'15"W
Elevation:  491   Surface Temp:  9.0  Stratified: MIXED     Site Depth:   4.6
Lake Area:      14 Watershed Area:    342 WA/LA:     25.3 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  4.2  Turbidity:   0.4     Color:   35
Closed pH: 6.54       Equil. pH: 6.85              ANC:   60.7       DOC:  5.88
Closed DIC:  0.78  Equil. DIC:  0.64    Meas. Cond:  21.3  Cal. Cond:  21.6
Ca:   99.5         Mg:   41.4       Na:   47.1        K:   5.2      NH4:  1.2
SO4:   92.0      HCO3:   48.6      Cl:    12.8      NO3:   0.0         F:  1.4
Sum Cations:  194.7  Sum Anions:  154.8  Cations/Anions: 1.26   Tot. P:   5.4
Tot. Al:    70.1    Ext. Al:  11.2    Fe:    42.0     Mn:    11.0    SiO2:  1.89

ID: 1C1-011   Name: TEN THOUSAND ACRE POND             State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-30'20"N    Longitude: 69-57'30"W
Elevation:  404   Surface Temp:  9.8  Stratified: MIXED     Site Depth:   2.1
Lake Area:      14 Watershed Area:    339 WA/LA:     25.1 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  2.1  Turbidity:   0.8     Color:   40
Closed pH: 6.72       Equil. pH: 7.08              ANC:   90.3       DOC:  5.69
Closed DIC:  1.14  Equil. DIC:  0.94    Meas. Cond:  24.6  Cal. Cond:  24.3
Ca:  124.3         Mg:   45.2       Na:   48.2        K:   6.3      NH4:  1.1
SO4:   91.7      HCO3:   71.7      Cl:    11.7      NO3:   0.0         F:  1.5
Sum Cations:  225.1  Sum Anions:  176.6  Cations/Anions: 1.27   Tot. P:   9.4
Tot. Al:  121.2    Ext. Al:   5.4    Fe:    17.0     Mn:     4.0    SiO2:  3.11

ID: 1C1-012   Name: WILSON HILL POND                   State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-25'58"N    Longitude: 69-58'12"W
Elevation:  344   Surface Temp: 10.0  Stratified: MIXED     Site Depth:   0.9
Lake Area:       7 Watershed Area:    101 WA/LA:     13.6 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  0.9  Turbidity:   1.0     Color:   25
Closed pH: 7.46       Equil. pH: 7.75              ANC:  307.0       DOC:  8.72
Closed DIC:  3.24  Equil. DIC:  3.33    Meas. Cond:  42.8  Cal. Cond:  44.9
Ca:  276.5         Mg:  101.7       Na:   54.0        K:   6.7      NH4:  1.9
SO4:   81.4      HCO3:  274.9      Cl:    11.4      NO3:   0.0         F:  1.8
Sum Cations:  440.8  Sum Anions:  370.1  Cations/Anions: 1.19   Tot. P:  10.0
Tot. Al:    59.3    Ext. Al:   4.9    Fe:    16.0     Mn:     2.0    SiO2:  3.03

ID: 1C1-013   Name: SPECTACLE POND                     State: ME  Date: 18OCT84
Sample Type: REGULAR             Latitude: 45-20'00"N    Longitude: 70-27'30"W
Elevation:  460   Surface Temp:  9.8  Stratified: MIXED     Site Depth:  10.4
Lake Area:      18 Watershed Area:    131 WA/LA:      7.3 Hydro Type: DRAINAGE
Residence Time:  1.14  Secchi Depth:  2.7  Turbidity:   0.5     Color:   35
Closed pH: 6.68       Equil. pH: 7.20              ANC:   94.8       DOC:  5.92
Closed DIC:  1.34  Equil. DIC:  0.98    Meas. Cond:  21.9  Cal. Cond:  22.5
Ca:  124.0         Mg:   41.8       Na:   39.5        K:   5.1      NH4:  1.3
SO4:   82.4      HCO3:   68.9      Cl:     7.7      NO3:   1.1         F:  1.3
Sum Cations:  211.9  Sum Anions:  161.4  Cations/Anions: 1.31   Tot. P:   5.8
Tot. Al:    76.3    Ext. Al:  18.3    Fe:    94.0     Mn:    38.0    SiO2:  2.63

ID: 1C1-015   Name: LITTLE JIM POND                    State: ME  Date: 18OCT84
Sample Type: REGULAR             Latitude: 45-17'00"N    Longitude: 70-27'30"W
Elevation:  527   Surface Temp: 10.4  Stratified: MIXED     Site Depth:  11.9
Lake Area:      33 Watershed Area:    114 WA/LA:      3.4 Hydro Type: DRAINAGE
Residence Time:  2.46  Secchi Depth:  3.4  Turbidity:   0.5     Color:   20
Closed pH: 7.27       Equil. pH: 7.39              ANC:  143.5       DOC:  4.59
Closed DIC:  1.72  Equil. DIC:  1.58    Meas. Cond:  25.8  Cal. Cond:  27.0
Ca:  122.5         Mg:   86.1       Na:   36.2        K:   6.2      NH4:  0.7
SO4:   80.2      HCO3:  126.0      Cl:     8.7      NO3:   0.2         F:  1.2
Sum Cations:  251.8  Sum Anions:  216.5  Cations/Anions: 1.16   Tot. P:  44.8
Tot. Al:    24.7    Ext. Al:   8.1    Fe:    33.0     Mn:    15.0    SiO2:  0.15
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-016   Name: GRASS POND                            State: ME  Date: 19OCT84
Sample Type: REGULAR                 Latitude: 45-18'30"N    Longitude: 70-05'30"W
Elevation:  352   Surface Temp: 10.5  Stratified: MIXED      Site Depth:    9.1
Lake Area:       30 Watershed Area:     925 WA/LA:     31.4 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  3.4   Turbidity:    0.7      Color:    30
Closed pH: 6.93         Equil. pH: 7.43               ANC:  146.3        DOC:  6.22
Closed DIC:   1.65  Equil. DIC:  1.47    Meas. Cond:  26.1   Cal. Cond:  27.4
Ca:  160.3           Mg:    54.5        Na:    40.9          K:    8.0      NH4:   1.6
SO4:    78.8        HCO3:  113.1        Cl:     9.7        NO3:    0.2        F:   1.5
Sum Cations:  265.4  Sum Anions:  203.4  Cations/Anions: 1.31   Tot. P:    6.0
Tot. Al:  283.3   Ext. Al:    3.0     Fe:    56.0      Mn:    20.0    SiO2:  3.62

ID: 1C1-017   Name: WELHERN POND                          State: ME  Date: 18OCT84
Sample Type: REGULAR                 Latitude: 45-12'45"N    Longitude: 70-29'40"W
Elevation:  363   Surface Temp:  9.2  Stratified: MIXED      Site Depth:    4.3
Lake Area:        5 Watershed Area:     236 WA/LA:     51.3 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  2.7   Turbidity:    1.3      Color:    35
Closed pH: 7.06         Equil. pH: 7.75               ANC:  332.3        DOC:  5.08
Closed DIC:   4.45  Equil. DIC:  3.56    Meas. Cond:  44.5   Cal. Cond:  46.4
Ca:  218.1           Mg:   157.1        Na:    61.2          K:   10.7      NH4:   2.4
SO4:    81.7        HCO3:  306.8        Cl:     9.7        NO3:    0.5        F:   1.8
Sum Cations:  449.5  Sum Anions:  401.2  Cations/Anions: 1.12   Tot. P:   14.4
Tot. Al:   33.8   Ext. Al:    9.4     Fe:   128.0      Mn:    40.0    SiO2:  4.85

ID: 1C1-018   Name: DECKER PONDS (EASTERN)                State: ME  Date: 19OCT84
Sample Type: REGULAR                 Latitude: 45-11'45"N    Longitude: 69-56'15"W
Elevation:  381   Surface Temp: 10.0  Stratified: MIXED      Site Depth:    6.7
Lake Area:        6 Watershed Area:     117 WA/LA:     20.5 Hydro Type: SEEPAGE
Residence Time:     *   Secchi Depth:  2.5   Turbidity:    0.6      Color:    35
Closed pH: 7.14         Equil. pH: 7.41               ANC:  182.3        DOC:  6.96
Closed DIC:   2.02  Equil. DIC:  2.00    Meas. Cond:  28.6   Cal. Cond:  30.0
Ca:  201.1           Mg:    52.2        Na:    34.5          K:    8.9      NH4:   1.2
SO4:    61.5        HCO3:  158.9        Cl:     8.7        NO3:    0.1        F:   1.0
Sum Cations:  297.9  Sum Anions:  230.5  Cations/Anions: 1.29   Tot. P:    5.8
Tot. Al:  297.3   Ext. Al:    6.0     Fe:    26.0      Mn:     6.0    SiO2:  1.90

ID: 1C1-019   Name: LITTLE DIMMICK POND                   State: ME  Date: 19OCT84
Sample Type: REGULAR                 Latitude: 45-13'45"N    Longitude: 69-52'30"W
Elevation:  425   Surface Temp:  9.7  Stratified: MIXED      Site Depth:    3.9
Lake Area:       17 Watershed Area:    1124 WA/LA:     67.3 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  3.1   Turbidity:    0.5      Color:    30
Closed pH: 7.30         Equil. pH: 7.66               ANC:  319.5        DOC:  5.83
Closed DIC:   3.56  Equil. DIC:  3.45    Meas. Cond:  44.1   Cal. Cond:  45.9
Ca:  139.7           Mg:   273.9        Na:    29.1          K:    5.4      NH4:   1.3
SO4:    90.5        HCO3:  280.2        Cl:    14.3        NO3:    3.6        F:   0.4
Sum Cations:  449.5  Sum Anions:  389.7  Cations/Anions: 1.15   Tot. P:    4.0
Tot. Al:  231.0   Ext. Al:    1.3     Fe:    99.0      Mn:    13.0    SiO2:  4.97

ID: 1C1-021   Name: CLEAR POND                            State: ME  Date: 19OCT84
Sample Type: REGULAR                 Latitude: 45-06'30"N    Longitude: 69-59'15"W
Elevation:  364   Surface Temp:  9.6  Stratified: MIXED      Site Depth:    7.3
Lake Area:       10 Watershed Area:     404 WA/LA:     42.5 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  3.1   Turbidity:    0.8      Color:    30
Closed pH: 6.94         Equil. pH: 7.23               ANC:  131.5        DOC:  5.31
Closed DIC:   1.60  Equil. DIC:  1.44    Meas. Cond:  24.5   Cal. Cond:  25.2
Ca:  125.0           Mg:    59.2        Na:    49.0          K:    8.4      NH4:   1.8
SO4:    68.5        HCO3:  112.2        Cl:    10.7        NO3:    0.5        F:   1.6
Sum Cations:  243.6  Sum Anions:  193.7  Cations/Anions: 1.26   Tot. P:    4.0
Tot. Al:  116.3   Ext. Al:    0.0     Fe:    72.0      Mn:     8.0    SiO2:  3.69
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-022   Name: SAFFORD POND                          State: ME  Date: 18OCT84
Sample Type: REGULAR             Latitude: 45-00'00"N    Longitude: 70-06'30"W
Elevation:  251   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   1.2
Lake Area:      17 Watershed Area:    171 WA/LA:     10.0 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  1.2   Turbidity:   0.5      Color:   25
Closed pH: 6.64        Equil. pH: 7.18               ANC:    91.9         DOC:  5.23
Closed DIC:  1.22   Equil. DIC:  1.00    Meas. Cond:  21.7   Cal. Cond:  21.7
Ca:   99.8           Mg:    39.9        Na:    47.7        K:   9.4       NH4:   1.7
SO4:    71.7       HCO3:    77.7       Cl:    13.9       NO3:   1.1         F:   1.8
Sum Cations:  198.6  Sum Anions:   166.2  Cations/Anions: 1.20   Tot. P:  18.1
Tot. Al:  111.7    Ext. Al:  17.5    Fe:    13.0     Mn:     0.0    SiO2:  0.36

ID: 1C1-023   Name: CRANBERRY POND                        State: ME  Date: 18OCT84
Sample Type: REGULAR             Latitude: 44-51'30"N    Longitude: 70-56'55"W
Elevation:  429   Surface Temp: 10.8  Stratified: MIXED      Site Depth:   0.9
Lake Area:      39 Watershed Area:    591 WA/LA:     15.1 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.9   Turbidity:   0.9      Color:   45
Closed pH: 6.65        Equil. pH: 7.07               ANC:    90.7         DOC:  9.57
Closed DIC:  1.04   Equil. DIC:  0.84    Meas. Cond:  24.6   Cal. Cond:  23.0
Ca:  102.8           Mg:    48.9        Na:    66.3        K:   9.3       NH4:   2.1
SO4:    77.9       HCO3:    63.4       Cl:     9.8       NO3:   0.2         F:   3.8
Sum Cations:  229.7  Sum Anions:   155.2  Cations/Anions: 1.48   Tot. P:  14.2
Tot. Al:  115.2    Ext. Al:  17.4    Fe:    41.0     Mn:     8.0    SiO2:  2.67

ID: 1C1-024   Name: ROUND POND                            State: NH  Date: 18OCT84
Sample Type: REGULAR             Latitude: 44-48'15"N    Longitude: 71-07'15"W
Elevation:  424   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   1.2
Lake Area:      18 Watershed Area:    197 WA/LA:     11.3 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  1.2   Turbidity:   0.3      Color:   30
Closed pH: 6.38        Equil. pH: 6.83               ANC:    58.0         DOC:  6.92
Closed DIC:  0.71   Equil. DIC:  0.56    Meas. Cond:  23.0   Cal. Cond:  23.9
Ca:   94.4           Mg:    52.9        Na:    52.5        K:  12.1       NH4:   1.6
SO4:   116.8       HCO3:    34.9       Cl:     8.1       NO3:   0.2         F:   2.7
Sum Cations:  213.9  Sum Anions:   162.8  Cations/Anions: 1.31   Tot. P:   1.4
Tot. Al:  142.4    Ext. Al:  25.5    Fe:    11.0     Mn:     5.0    SiO2:  1.71

ID: 1C1-025   Name: BRAGG POND                            State: NH  Date: 18OCT84
Sample Type: REGULAR             Latitude: 44-46'00"N    Longitude: 71-15'00"W
Elevation:  521   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   0.9
Lake Area:       6 Watershed Area:   2789 WA/LA:    480.9 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  0.9   Turbidity:   1.7      Color:   25
Closed pH: 6.90        Equil. pH: 7.42               ANC:   162.9         DOC:  4.22
Closed DIC:  2.10   Equil. DIC:  1.83    Meas. Cond:  28.3   Cal. Cond:  31.5
Ca:  160.6           Mg:    55.5        Na:    58.2        K:   9.1       NH4:   1.4
SO4:    86.7       HCO3:   156.2       Cl:    10.7       NO3:   0.4         F:   9.1
Sum Cations:  285.0  Sum Anions:   263.2  Cations/Anions: 1.08   Tot. P:  13.9
Tot. Al:  103.4    Ext. Al:  10.4    Fe:    18.0     Mn:    18.0    SiO2:  0.83

ID: 1C1-027   Name: PIKE POND                             State: NH  Date: 18OCT84
Sample Type: REGULAR             Latitude: 44-37'50"N    Longitude: 71-21'10"W
Elevation:  357   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   7.3
Lake Area:       6 Watershed Area:    135 WA/LA:     24.5 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  7.3   Turbidity:   0.3      Color:   15
Closed pH: 6.25        Equil. pH: 6.72               ANC:    37.7         DOC:  4.29
Closed DIC:  0.72   Equil. DIC:  0.48    Meas. Cond:  23.7   Cal. Cond:  22.6
Ca:  101.9           Mg:    30.0        Na:    52.9        K:  11.1       NH4:   1.2
SO4:   116.8       HCO3:    22.7       Cl:     9.2       NO3:   0.4         F:   2.7
Sum Cations:  197.4  Sum Anions:   151.8  Cations/Anions: 1.30   Tot. P:   5.7
Tot. Al:   92.9    Ext. Al:  15.7    Fe:    48.0     Mn:     9.0    SiO2:  1.71
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-028   Name: HORSESHOE POND                     State: ME  Date: 24OCT84
Sample Type: REGULAR              Latitude: 44-35'27"N    Longitude: 70-40'00"W
Elevation:  309   Surface Temp: 10.6  Stratified: MIXED       Site Depth:   1.2
Lake Area:       6 Watershed Area:      60 WA/LA:     10.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.2   Turbidity:   0.7       Color:   70
Closed pH: 6.52        Equil. pH: 7.25               ANC:  135.2          DOC: 10.46
Closed DIC:  1.00    Equil. DIC:  1.09    Meas. Cond:  29.4   Cal. Cond:  29.8
Ca:  143.4          Mg:   58.2        Na:   71.6          K:  14.3        NH4:   1.7
SO4:    91.4       HCO3:  104.4       Cl:   16.8        NO3:   0.0           F:   2.6
Sum Cations:  289.4  Sum Anions:  215.3  Cations/Anions: 1.34   Tot. P:    9.0
Tot. Al:    92.4    Ext. Al:  17.5     Fe:    66.0      Mn:     7.0    SiO2:  2.25

ID: 1C1-029   Name: NORTH POND                         State: ME  Date: 25OCT84
Sample Type: REGULAR              Latitude: 44-24'15"N    Longitude: 70-40'30"W
Elevation:  220   Surface Temp: 11.7  Stratified: MIXED       Site Depth:   8.5
Lake Area:     125 Watershed Area:    1031 WA/LA:      8.3 Hydro Type: DRAINAGE
Residence Time:  0.71  Secchi Depth:  5.3   Turbidity:   0.5       Color:   15
Closed pH: 6.76        Equil. pH: 7.13               ANC:  105.1          DOC:  3.24
Closed DIC:  1.43    Equil. DIC:  1.21    Meas. Cond:  28.7   Cal. Cond:  29.7
Ca:  103.3          Mg:   40.6        Na:   99.4          K:  11.7        NH4:   1.1
SO4:    75.4       HCO3:   85.1       Cl:   71.8        NO3:   0.1           F:   1.9
Sum Cations:  256.2  Sum Anions:  234.3  Cations/Anions: 1.09   Tot. P:    6.0
Tot. Al:    37.1    Ext. Al:   5.9     Fe:    50.0      Mn:     7.0    SiO2:  1.34

ID: 1C1-030   Name: PEARL LAKE                         State: NH  Date: 25OCT84
Sample Type: REGULAR              Latitude: 44-12'00"N    Longitude: 71-52'00"W
Elevation:  311   Surface Temp: 11.3  Stratified: MIXED       Site Depth:   6.4
Lake Area:      25 Watershed Area:    1463 WA/LA:     59.2 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  3.6   Turbidity:   0.7       Color:   20
Closed pH: 7.24        Equil. pH: 7.68               ANC:  292.3          DOC:  4.32
Closed DIC:  3.59    Equil. DIC:  3.34    Meas. Cond:  50.5   Cal. Cond:  54.1
Ca:  295.1          Mg:   72.6        Na:   66.5          K:  29.1        NH4:   1.1
SO4:   140.7       HCO3:  278.5       Cl:   44.0        NO3:   0.1           F:   2.2
Sum Cations:  464.4  Sum Anions:  466.3  Cations/Anions: 1.00   Tot. P:    8.0
Tot. Al:    51.6    Ext. Al:   6.8     Fe:   131.0      Mn:    37.0    SiO2:  4.89

ID: 1C1-031   Name: HUNT POND                          State: ME  Date: 25OCT84
Sample Type: REGULAR              Latitude: 44-05'00"N    Longitude: 71-00'00"W
Elevation:  149   Surface Temp: 12.3  Stratified: MIXED       Site Depth:   3.0
Lake Area:       7 Watershed Area:      62 WA/LA:      8.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.0   Turbidity:   0.4       Color:   20
Closed pH: 6.47        Equil. pH: 7.09               ANC:   73.5          DOC:  3.40
Closed DIC:  1.39    Equil. DIC:  0.95    Meas. Cond:  19.4   Cal. Cond:  19.0
Ca:   72.2          Mg:   24.2        Na:   64.5          K:   8.0        NH4:   0.9
SO4:    52.6       HCO3:   70.6       Cl:   18.9        NO3:   0.0           F:  11.7
Sum Cations:  170.0  Sum Anions:  153.8  Cations/Anions: 1.10   Tot. P:    5.1
Tot. Al:    37.4    Ext. Al:   8.0     Fe:    74.0      Mn:    17.0    SiO2:  3.18

ID: 1C1-032   Name: PEQUAWKET POND                     State: NH  Date: 25OCT84
Sample Type: REGULAR              Latitude: 43-58'15"N    Longitude: 71-08'15"W
Elevation:  140   Surface Temp: 11.7  Stratified: WEAK        Site Depth:  12.5
Lake Area:      24 Watershed Area:    5514 WA/LA:    232.7 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  4.2   Turbidity:   0.4       Color:   15
Closed pH: 7.07        Equil. pH: 7.76               ANC:  175.4          DOC:  2.16
Closed DIC:  2.13    Equil. DIC:  1.99    Meas. Cond:  52.8   Cal. Cond:  57.4
Ca:  194.5          Mg:   42.5        Na:  228.8          K:  17.6        NH4:   0.8
SO4:    53.9       HCO3:  154.5       Cl:  233.1        NO3:   0.1           F:  30.9
Sum Cations:  484.4  Sum Anions:  472.6  Cations/Anions: 1.02   Tot. P:    4.5
Tot. Al:    40.5    Ext. Al:   9.3     Fe:    59.5      Mn:     4.0    SiO2:  6.69
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-037   Name: COOKS POND                          State: NH  Date: 25OCT84
Sample Type: REGULAR              Latitude: 43-51'30"N    Longitude: 71-09'00"W
Elevation:  146   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   6.7
Lake Area:      11 Watershed Area:    487 WA/LA:     43.5 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  4.4   Turbidity:   0.4       Color:   10
Closed pH: 6.89        Equil. pH: 7.35              ANC:  145.6        DOC:  1.68
Closed DIC:  1.85   Equil. DIC:  1.65    Meas. Cond:  26.7   Cal. Cond:  27.2
Ca:  115.1          Mg:    30.8        Na:   79.5          K:  11.2      NH4:  0.9
SO4:   67.6        HCO3:  135.7       Cl:   22.7         NO3:   0.0         F: 11.1
Sum Cations:  237.6  Sum Anions:  237.2  Cations/Anions: 1.00   Tot. P:   3.9
Tot. Al:   23.1    Ext. Al:   6.8     Fe:    13.0       Mn:     0.0    SiO2:  5.33

ID: 1C1-038   Name: RESERVOIR POND                      State: NH  Date: 24OCT84
Sample Type: REGULAR              Latitude: 43-47'15"N    Longitude: 72-02'30"W
Elevation:  410   Surface Temp: 12.1  Stratified: MIXED      Site Depth:  12.2
Lake Area:      64 Watershed Area:   1145 WA/LA:     17.9 Hydro Type: RESERVOIR
Residence Time:  0.58  Secchi Depth:  6.4   Turbidity:   0.3       Color:   20
Closed pH: 6.28        Equil. pH: 6.60              ANC:   36.7        DOC:  3.74
Closed DIC:  0.59   Equil. DIC:  0.38    Meas. Cond:  20.4   Cal. Cond:  20.5
Ca:   98.8          Mg:    27.5        Na:   32.5          K:   6.7      NH4:  1.2
SO4:  106.3        HCO3:   26.6       Cl:   13.4         NO3:   0.5         F:  1.9
Sum Cations:  167.1  Sum Anions:  148.7  Cations/Anions: 1.12   Tot. P:   4.9
Tot. Al:   51.8    Ext. Al:  11.5     Fe:    32.0       Mn:    13.5    SiO2:  2.31

ID: 1C1-039   Name: OSSIPEE LAKE                        State: NH  Date: 29OCT84
Sample Type: REGULAR              Latitude: 43-47'30"N    Longitude: 71-08'00"W
Elevation:  124   Surface Temp: 12.4  Stratified: MIXED      Site Depth:  14.0
Lake Area:    1296 Watershed Area:  81424 WA/LA:     62.8 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  5.8   Turbidity:   0.2       Color:   15
Closed pH: 6.62        Equil. pH: 7.05              ANC:   96.0        DOC:  2.51
Closed DIC:  1.50   Equil. DIC:  1.12    Meas. Cond:  29.9   Cal. Cond:  32.2
Ca:   94.5          Mg:    28.4        Na:  124.0          K:  11.2      NH4:  1.1
SO4:   71.4        HCO3:   90.2       Cl:   94.8         NO3:   2.5         F: 13.2
Sum Cations:  259.3  Sum Anions:  272.3  Cations/Anions: 0.95   Tot. P:   0.0
Tot. Al:   49.5    Ext. Al:   9.9     Fe:    20.0       Mn:     4.0    SiO2:  6.49

ID: 1C1-040   Name: MUDGETTS POND                       State: NH  Date: 24OCT84
Sample Type: REGULAR              Latitude: 43-46'10"N    Longitude: 71-59'40"W
Elevation:  521   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   3.6
Lake Area:       4 Watershed Area:    137 WA/LA:     34.3 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  1.7   Turbidity:   0.7       Color:   40
Closed pH: 6.69        Equil. pH: 7.25              ANC:  133.0        DOC:  6.24
Closed DIC:  1.90   Equil. DIC:  1.40    Meas. Cond:  30.2   Cal. Cond:  30.7
Ca:  172.8          Mg:    43.9        Na:   53.4          K:   7.8      NH4:  2.8
SO4:  106.6        HCO3:  104.3       Cl:   14.2         NO3:   1.0         F:  3.6
Sum Cations:  280.9  Sum Anions:  229.8  Cations/Anions: 1.22   Tot. P:   9.1
Tot. Al:  114.5    Ext. Al:  22.4     Fe:    38.0       Mn:     5.0    SiO2:  4.95

ID: 1C1-041   Name: ENFIELD RESERVOIR                   State: NH  Date: 23OCT84
Sample Type: REGULAR              Latitude: 43-39'50"N    Longitude: 72-09'00"W
Elevation:  289   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   3.9
Lake Area:       7 Watershed Area:    396 WA/LA:     53.5 Hydro Type: RESERVOIR
Residence Time:  0.07  Secchi Depth:  1.9   Turbidity:   2.6       Color:   25
Closed pH: 6.73        Equil. pH: 7.29              ANC:  145.2        DOC:  4.83
Closed DIC:  2.11   Equil. DIC:  1.54    Meas. Cond:  32.3   Cal. Cond:  35.6
Ca:  193.3          Mg:    48.6        Na:   48.2          K:  13.3      NH4:  1.0
SO4:  132.2        HCO3:  139.8       Cl:   13.5         NO3:   1.2         F:  1.4
Sum Cations:  304.5  Sum Anions:  288.1  Cations/Anions: 1.06   Tot. P:  13.5
Tot. Al:  111.8    Ext. Al:  12.6     Fe:    20.0       Mn:     6.0    SiO2:  0.32
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-042   Name: DUNCAN LAKE                        State: NH  Date: 29OCT84
Sample Type: REGULAR              Latitude: 43-42'15"N    Longitude: 71-06'30"W
Elevation:  175   Surface Temp: 12.8  Stratified: MIXED      Site Depth:    6.1
Lake Area:      34 Watershed Area:     132 WA/LA:      3.9 Hydro Type: SEEPAGE
Residence Time:   *     Secchi Depth:  3.4   Turbidity:   0.6      Color:    30
Closed pH: 6.56       Equil. pH: 7.09                ANC:   99.6        DOC:  4.43
Closed DIC:  1.59   Equil. DIC:  1.07     Meas. Cond:  75.8   Cal. Cond:  81.1
Ca:  126.0          Mg:    32.1        Na:  478.9          K:  16.5       NH4:   1.1
SO4:    52.9       HCO3:   80.9        Cl:  502.3        NO3:   0.3          F:   5.6
Sum Cations:  654.9  Sum Anions:   642.1  Cations/Anions: 1.02   Tot. P:    6.6
Tot. Al:    38.5     Ext. Al:    5.0     Fe:  291.0        Mn:    71.0     SiO2:  1.08

ID: 1C1-044   Name: SMITH POND                         State: NH  Date: 23OCT84
Sample Type: REGULAR              Latitude: 43-35'15"N    Longitude: 72-08'00"W
Elevation:  503   Surface Temp: 12.3  Stratified: MIXED      Site Depth:    9.1
Lake Area:      28 Watershed Area:     231 WA/LA:      8.3 Hydro Type: DRAINAGE
Residence Time:  0.88  Secchi Depth:  4.9   Turbidity:   0.3      Color:    10
Closed pH: 6.54       Equil. pH: 6.89                ANC:   51.4        DOC:  2.58
Closed DIC:  0.87   Equil. DIC:  0.58     Meas. Cond:  19.0   Cal. Cond:  20.3
Ca:  102.7          Mg:    26.9        Na:   23.2          K:   5.4       NH4:   1.1
SO4:    91.2       HCO3:   62.4        Cl:   11.7        NO3:   0.8          F:   1.6
Sum Cations:  159.4  Sum Anions:   167.8  Cations/Anions: 0.95   Tot. P:    4.5
Tot. Al:    28.7     Ext. Al:   10.5     Fe:   18.0        Mn:     9.0     SiO2:  1.57

ID: 1C1-045   Name: COOKS POND                         State: NH  Date: 29OCT84
Sample Type: REGULAR              Latitude: 43-33'45"N    Longitude: 71-05'15"W
Elevation:  199   Surface Temp: 13.6  Stratified: MIXED      Site Depth:   10.0
Lake Area:      96 Watershed Area:     497 WA/LA:      5.2 Hydro Type: DRAINAGE
Residence Time:  1.50  Secchi Depth:  7.4   Turbidity:   0.2      Color:     5
Closed pH: 6.98       Equil. pH: 7.26                ANC:  128.4        DOC:  2.33
Closed DIC:  1.57   Equil. DIC:  1.51     Meas. Cond:  31.5   Cal. Cond:  32.6
Ca:  155.2          Mg:    38.3        Na:   77.0          K:   9.2       NH4:   0.9
SO4:    86.3       HCO3:  106.7        Cl:   63.4        NO3:   0.3          F:   4.0
Sum Cations:  280.7  Sum Anions:   260.9  Cations/Anions: 1.08   Tot. P:    3.6
Tot. Al:    10.2     Ext. Al:    2.1     Fe:    0.0        Mn:     1.0     SiO2:  1.14

ID: 1C1-046   Name: SHAWS POND                         State: NH  Date: 29OCT84
Sample Type: REGULAR              Latitude: 43-32'00"N    Longitude: 71-08'30"W
Elevation:  236   Surface Temp: 12.3  Stratified: MIXED      Site Depth:    4.6
Lake Area:      24 Watershed Area:     461 WA/LA:     19.1 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  4.0   Turbidity:   0.4      Color:    20
Closed pH: 6.99       Equil. pH: 7.35                ANC:  170.1        DOC:  3.47
Closed DIC:  2.14   Equil. DIC:  1.92     Meas. Cond:  37.7   Cal. Cond:  39.5
Ca:  162.8          Mg:    32.2        Na:  139.2          K:   8.2       NH4:   1.0
SO4:    61.2       HCO3:  150.5        Cl:  109.6        NO3:   0.3          F:   8.6
Sum Cations:  343.4  Sum Anions:   330.3  Cations/Anions: 1.04   Tot. P:    5.5
Tot. Al:    36.6     Ext. Al:    3.0     Fe:   24.5        Mn:     3.5     SiO2:  4.12

ID: 1C1-047   Name: OTTER POND                         State: NH  Date: 24OCT84
Sample Type: REGULAR              Latitude: 43-26'00"N    Longitude: 72-03'30"W
Elevation:  343   Surface Temp: 12.7  Stratified: MIXED      Site Depth:    7.3
Lake Area:      71 Watershed Area:    4082 WA/LA:     57.2 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  4.3   Turbidity:   0.4      Color:    15
Closed pH: 6.80       Equil. pH: 7.08                ANC:  103.7        DOC:  3.56
Closed DIC:  1.34   Equil. DIC:  1.12     Meas. Cond:  71.4   Cal. Cond:  60.4
Ca:  172.2          Mg:    48.5        Na:  370.2          K:  15.5       NH4:   0.8
SO4:   120.4       HCO3:   90.3        Cl:  183.4        NO3:   0.2          F:   2.9
Sum Cations:  607.[illegible]  Sum Anions:   397.3  Cations/Anions: 1.53   Tot. P:    4.2
Tot. Al:    17.8     Ext. Al:    3.8     Fe:   16.0        Mn:     2.0     SiO2:  1.82
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-049   Name: DODGE POND                          State: NH  Date: 24OCT84
Sample Type: REGULAR            Latitude: 43-13'20"N    Longitude: 72-10'40"W
Elevation:  369   Surface Temp: 12.3  Stratified: MIXED      Site Depth:    4.3
Lake Area:        8 Watershed Area:     300 WA/LA:     39.0 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  0.8   Turbidity:   1.3      Color:   125
Closed pH: 6.13        Equil. pH: 7.14                ANC:  107.1        DOC:  0.14
Closed DIC:  2.73   Equil. DIC:  0.97    Meas. Cond:  90.9   Cal. Cond:   96.4
Ca:  194.5            Mg:    61.2       Na:  490.7          K:  24.8       NH4:   4.5
SO4:   81.5       HCO3:    74.1       Cl:  585.7         NO3:   0.6          F:   3.4
Sum Cations:  776.0  Sum Anions:   745.4  Cations/Anions: 1.04   Tot. P:    3.9
Tot. Al:    80.0    Ext. Al:    9.5    Fe:  964.0        Mn:    36.0    SiO2:  4.53

ID: 1C1-050   Name: BILLINGS POND                       State: NH  Date: 24OCT84
Sample Type: REGULAR            Latitude: 43-17'00"N    Longitude: 71-56'30"W
Elevation:  252   Surface Temp: 13.2  Stratified: MIXED      Site Depth:    4.6
Lake Area:       10 Watershed Area:      57 WA/LA:      5.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.8   Turbidity:   0.6      Color:    25
Closed pH: 6.58        Equil. pH: 6.94                ANC:   77.8        DOC:  2.05
Closed DIC:  1.07   Equil. DIC:  0.75    Meas. Cond:  36.4   Cal. Cond:   37.6
Ca:  107.1            Mg:    32.0       Na:  158.3          K:  10.7       NH4:   0.7
SO4:   89.7       HCO3:    63.1       Cl:  138.2         NO3:   0.0          F:   2.3
Sum Cations:  308.9  Sum Anions:   293.4  Cations/Anions: 1.05   Tot. P:    9.5
Tot. Al:    21.6    Ext. Al:    6.0    Fe:   10.0        Mn:     2.0    SiO2:  0.48

ID: 1C1-052   Name: CALDWELL POND                       State: NH  Date: 24OCT84
Sample Type: REGULAR            Latitude: 43-04'36"N    Longitude: 72-18'20"W
Elevation:  388   Surface Temp: 13.4  Stratified: MIXED      Site Depth:    7.3
Lake Area:       12 Watershed Area:      67 WA/LA:      5.8 Hydro Type: DRAINAGE
Residence Time:  0.98  Secchi Depth:  7.3   Turbidity:   0.1      Color:     5
Closed pH: 5.25        Equil. pH: 5.34                ANC:    2.7        DOC:  1.16
Closed DIC:  0.43   Equil. DIC:  0.13    Meas. Cond:  20.4   Cal. Cond:   20.5
Ca:   61.7            Mg:    20.6       Na:   38.2          K:   6.1       NH4:   1.8
SO4:  123.2       HCO3:     2.3       Cl:   17.3         NO3:   0.7          F:   2.5
Sum Cations:  133.4  Sum Anions:   146.1  Cations/Anions: 0.91   Tot. P:    3.7
Tot. Al:    52.5    Ext. Al:   41.1    Fe:    5.0        Mn:    70.0    SiO2:  1.03

ID: 1C1-056   Name: LITTLE ELMORE POND                  State: VT  Date: 29OCT84
Sample Type: REGULAR            Latitude: 44-29'45"N    Longitude: 72-31'50"W
Elevation:  375   Surface Temp: 10.7  Stratified: MIXED      Site Depth:    3.7
Lake Area:        9 Watershed Area:     129 WA/LA:     13.9 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  1.2   Turbidity:   1.2      Color:    35
Closed pH: 7.02        Equil. pH: 7.32                ANC:  166.1        DOC:  7.59
Closed DIC:  1.90   Equil. DIC:  1.67    Meas. Cond:  32.2   Cal. Cond:   33.2
Ca:  180.8            Mg:    88.2       Na:   27.6          K:   8.2       NH4:   1.1
SO4:  104.8       HCO3:   134.0       Cl:   15.7         NO3:   0.1          F:   1.8
Sum Cations:  306.0  Sum Anions:   256.4  Cations/Anions: 1.19   Tot. P:   15.3
Tot. Al:    45.6    Ext. Al:    3.5    Fe:   23.0        Mn:    27.0    SiO2:  0.12

ID: 1C1-059   Name: FERN LAKE                           State: VT  Date: 03NOV84
Sample Type: REGULAR            Latitude: 43-52'00"N    Longitude: 73-04'15"W
Elevation:  174   Surface Temp: 11.2  Stratified: MIXED      Site Depth:    7.0
Lake Area:       26 Watershed Area:     181 WA/LA:      6.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  5.3   Turbidity:   0.4      Color:    13
Closed pH: 7.78        Equil. pH: 8.22                ANC: 1075.6        DOC:  3.40
Closed DIC: 11.86   Equil. DIC: 11.29    Meas. Cond: 143.8   Cal. Cond:  144.5
Ca:  640.0            Mg:   528.5       Na:  237.7          K:  14.7       NH4:   2.4
SO4:   91.7       HCO3:   966.3       Cl:  189.3         NO3:   0.1          F:   1.2
Sum Cations: 1423.4  Sum Anions:  1253.8  Cations/Anions: 1.14   Tot. P:    9.9
Tot. Al:    33.5    Ext. Al:    2.4    Fe:    5.5        Mn:     0.0    SiO2:  0.33
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-060   Name: GREAT AVERILL POND              State: VT  Date: 18OCT84
Sample Type: REGULAR           Latitude: 44-59'00"N    Longitude: 71-42'00"W
Elevation:  513   Surface Temp: 10.6  Stratified: MIXED      Site Depth:  14.0
Lake Area:     340 Watershed Area:    3046 WA/LA:     9.0 Hydro Type: DRAINAGE
Residence Time:  1.00  Secchi Depth:  3.4   Turbidity:   0.3      Color:    15
Closed pH: 7.06        Equil. pH: 7.33               ANC:  135.5         DOC:  3.28
Closed DIC:  1.75   Equil. DIC:  1.55   Meas. Cond:  30.8   Cal. Cond:  32.6
Ca:  181.5           Mg:   43.3      Na:   50.7        K:   8.7       NH4:  0.9
SO4:  103.6       HCO3:  119.8      Cl:   29.0       NO3:   1.0          F:  5.4
Sum Cations:  285.1  Sum Anions:  259.0  Cations/Anions: 1.10   Tot. P:   7.1
Tot. Al:   20.4    Ext. Al:   8.1    Fe:   26.0      Mn:   20.5    SiO2:  1.68

ID: 1C1-061   Name: ECHO POND                       State: VT  Date: 29OCT84
Sample Type: REGULAR           Latitude: 44-51'40"N    Longitude: 72-00'00"W
Elevation:  381   Surface Temp: 11.7  Stratified: STRONG     Site Depth:  30.4
Lake Area:     204 Watershed Area:    6133 WA/LA:    30.0 Hydro Type: DRAINAGE
Residence Time:  0.71  Secchi Depth:  5.9   Turbidity:   0.3      Color:    20
Closed pH: 7.73        Equil. pH: 7.99               ANC:  606.0         DOC:  2.34
Closed DIC:  6.94   Equil. DIC:  6.87   Meas. Cond:  84.9   Cal. Cond:  90.8
Ca:  601.3           Mg:   97.1      Na:   91.2        K:  23.2       NH4:  1.0
SO4:  136.5       HCO3:  541.8      Cl:  106.3       NO3:   0.0          F:  3.2
Sum Cations:  813.9  Sum Anions:  791.2  Cations/Anions: 1.03   Tot. P:   5.0
Tot. Al:  174.2    Ext. Al:   5.3    Fe:    3.0      Mn:    1.0    SiO2:  1.57

ID: 1C1-062   Name: DANIELS POND                    State: VT  Date: 29OCT84
Sample Type: REGULAR           Latitude: 44-40'30"N    Longitude: 72-15'40"W
Elevation:  497   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   1.8
Lake Area:      26 Watershed Area:     363 WA/LA:    13.9 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  2.3   Turbidity:   0.5      Color:    25
Closed pH: 7.83        Equil. pH: 8.00               ANC:  682.6         DOC:  5.48
Closed DIC:  7.12   Equil. DIC:  7.52   Meas. Cond:  78.2   Cal. Cond:  82.1
Ca:  633.2           Mg:  106.4      Na:   41.6        K:   8.5       NH4:  1.4
SO4:   94.9       HCO3:  583.6      Cl:   25.8       NO3:   0.5          F:  4.5
Sum Cations:  791.1  Sum Anions:  711.5  Cations/Anions: 1.11   Tot. P:   9.1
Tot. Al:   57.3    Ext. Al:   4.6    Fe:   24.0      Mn:    0.0    SiO2:  0.77

ID: 1C1-063   Name: CLARK POND                      State: VT  Date: 29OCT84
Sample Type: REGULAR           Latitude: 44-38'40"N    Longitude: 72-12'15"W
Elevation:  376   Surface Temp: 11.2  Stratified: MIXED      Site Depth:   6.7
Lake Area:      11 Watershed Area:     422 WA/LA:    38.4 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  1.3   Turbidity:   0.7      Color:    20
Closed pH: 7.92        Equil. pH: 8.44               ANC: 1994.9         DOC:  3.23
Closed DIC: 22.34   Equil. DIC: 23.20   Meas. Cond: 258.8   Cal. Cond: 270.4
Ca: 1814.9           Mg:  276.4      Na:  360.2        K:  40.1       NH4:  2.5
SO4:  293.4       HCO3: 1966.7      Cl:  177.0       NO3:   0.8          F:  2.1
Sum Cations: 2494.0  Sum Anions: 2468.5  Cations/Anions: 1.01   Tot. P:  16.6
Tot. Al:   35.2    Ext. Al:   2.3    Fe:   24.0      Mn:   48.0    SiO2:  7.44

ID: 1C1-064   Name: LOWELL LAKE                     State: VT  Date: 23OCT84
Sample Type: REGULAR           Latitude: 43-13'30"N    Longitude: 72-45'45"W
Elevation:  405   Surface Temp: 13.4  Stratified: MIXED      Site Depth:   6.1
Lake Area:      39 Watershed Area:     546 WA/LA:    14.1 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  4.1   Turbidity:   0.4      Color:    15
Closed pH: 6.36        Equil. pH: 6.66               ANC:   42.7         DOC:  3.93
Closed DIC:  0.78   Equil. DIC:  0.46   Meas. Cond:  18.0   Cal. Cond:  19.8
Ca:   69.8           Mg:   42.4      Na:   37.3        K:  12.8       NH4:  0.2
SO4:   96.4       HCO3:   36.2      Cl:   12.2       NO3:   0.0          F:  2.1
Sum Cations:  162.9  Sum Anions:  147.0  Cations/Anions: 1.11   Tot. P:   6.5
Tot. Al:   36.9    Ext. Al:   9.8    Fe:   42.0      Mn:    4.0    SiO2:  0.31
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-065   Name: FERRIN POND                        State: NH  Date: 01NOV84
Sample Type: REGULAR              Latitude: 43-02'30"N    Longitude: 71-46'30"W
Elevation:  296   Surface Temp: 11.4  Stratified: MIXED     Site Depth:   3.0
Lake Area:       5 Watershed Area:      44 WA/LA:      9.0 Hydro Type: DRAINAGE
Residence Time:  0.27  Secchi Depth:  3.0   Turbidity:   0.7      Color:   15
Closed pH: 5.98        Equil. pH: 6.42               ANC:   27.1         DOC:  3.63
Closed DIC:  0.70   Equil. DIC:  0.31    Meas. Cond:  19.9   Cal. Cond:  20.1
Ca:   56.8          Mg:    32.0        Na:    56.9         K:    9.6      NH4:  1.7
SO4:  101.2       HCO3:    19.1       Cl:    24.9       NO3:    0.3         F:  1.4
Sum Cations:  158.0  Sum Anions:  146.9  Cations/Anions: 1.08   Tot. P:   6.3
Tot. Al:   43.3    Ext. Al:    7.6    Fe:    25.0      Mn:    21.0     SiO2:  0.21

ID: 1C1-066   Name: HAUNTED LAKE                       State: NH  Date: 01NOV84
Sample Type: REGULAR              Latitude: 42-59'00"N    Longitude: 71-46'00"W
Elevation:  194   Surface Temp: 12.0  Stratified: MIXED     Site Depth:   3.6
Lake Area:      55 Watershed Area:    1528 WA/LA:     27.9 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  2.9   Turbidity:   1.0      Color:   65
Closed pH: 6.46        Equil. pH: 7.08               ANC:   84.0         DOC:  6.33
Closed DIC:  1.29   Equil. DIC:  0.80    Meas. Cond:  42.6   Cal. Cond:  42.5
Ca:  114.1          Mg:    48.1        Na:   180.1         K:   12.9      NH4:  1.2
SO4:  113.2       HCO3:    65.6       Cl:   142.4       NO3:    0.1         F:  2.5
Sum Cations:  356.7  Sum Anions:  323.8  Cations/Anions: 1.10   Tot. P:  11.0
Tot. Al:  113.9    Ext. Al:    7.6    Fe:   353.0      Mn:    14.0     SiO2:  3.58

ID: 1C1-067   Name: STUMP POND                         State: NH  Date: 03NOV84
Sample Type: REGULAR              Latitude: 42-44'45"N    Longitude: 71-56'15"W
Elevation:  381   Surface Temp:  7.0  Stratified: MIXED     Site Depth:   0.6
Lake Area:       7 Watershed Area:     106 WA/LA:     14.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.6   Turbidity:   0.9      Color:  100
Closed pH: 4.81        Equil. pH: 4.87               ANC:   -4.0         DOC:  9.05
Closed DIC:  0.68   Equil. DIC:  0.15    Meas. Cond:  28.3   Cal. Cond:  26.3
Ca:   41.7          Mg:    20.5        Na:    65.7         K:   10.2      NH4: 25.3
SO4:   96.8       HCO3:     1.6       Cl:    49.8       NO3:    3.3         F:  2.3
Sum Cations:  177.1  Sum Anions:  153.8  Cations/Anions: 1.15   Tot. P:  12.9
Tot. Al:  211.4    Ext. Al:   29.4    Fe:   175.0      Mn:    46.0     SiO2:  0.97

ID: 1C1-068   Name: LINCOLN POND                       State: MA  Date: 03NOV84
Sample Type: REGULAR              Latitude: 42-40'10"N    Longitude: 71-54'45"W
Elevation:  351   Surface Temp:  9.7  Stratified: MIXED     Site Depth:   2.4
Lake Area:      12 Watershed Area:      73 WA/LA:      6.3 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  0.7   Turbidity:   1.5      Color:  125
Closed pH: 4.54        Equil. pH: 4.53               ANC:  -21.5         DOC: 12.42
Closed DIC:  0.70   Equil. DIC:  0.17    Meas. Cond:  22.8   Cal. Cond:  21.0
Ca:   22.3          Mg:    12.8        Na:    44.2         K:    4.3      NH4:  3.5
SO4:   45.2       HCO3:     0.8       Cl:    20.0       NO3:    1.2         F:  2.2
Sum Cations:  117.9  Sum Anions:   69.3  Cations/Anions: 1.70   Tot. P:  24.6
Tot. Al:  125.7    Ext. Al:   13.1    Fe:   171.0      Mn:    25.0     SiO2:  3.96

ID: 1C1-069   Name: HIDDEN LAKE                        State: VT  Date: 06NOV84
Sample Type: REGULAR              Latitude: 42-52'50"N    Longitude: 72-43'10"W
Elevation:  451   Surface Temp:  7.3  Stratified: MIXED     Site Depth:   1.2
Lake Area:       6 Watershed Area:     285 WA/LA:     50.0 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.4   Turbidity:   0.8      Color:   40
Closed pH: 6.39        Equil. pH: 7.03               ANC:   78.6         DOC:  4.38
Closed DIC:  1.49   Equil. DIC:  0.84    Meas. Cond:  77.9   Cal. Cond:  73.2
Ca:  107.7          Mg:    64.3        Na:   420.2         K:   17.3      NH4: 11.9
SO4:   50.2       HCO3:    77.5       Cl:   425.3       NO3:    2.0         F:  1.6
Sum Cations:  621.6  Sum Anions:  556.5  Cations/Anions: 1.12   Tot. P:   6.7
Tot. Al:  122.9    Ext. Al:    7.7    Fe:   245.0      Mn:    39.0     SiO2:  1.92
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-070   Name: PACKARD POND                      State: MA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 42-38'00"N    Longitude: 72-14'00"W
Elevation:  180   Surface Temp: 11.7  Stratified: WEAK        Site Depth:  10.6
Lake Area:       17 Watershed Area:  13709 WA/LA:    792.4 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  2.3   Turbidity:   0.7       Color:   55
Closed pH: 5.97        Equil. pH: 6.57                ANC:   37.0        DOC:  5.98
Closed DIC:  1.08   Equil. DIC:  0.40    Meas. Cond:  35.6   Cal. Cond:  36.1
Ca:   86.2          Mg:    37.9        Na:   154.4        K:   14.0       NH4:   2.1
SO4:   100.2        HCO3:   25.3        Cl:   135.9       NO3:    0.2         F:   3.6
Sum Cations:  295.6  Sum Anions:  265.2  Cations/Anions: 1.11   Tot. P:   9.7
Tot. Al:  104.4    Ext. Al:  15.0    Fe:  152.0      Mn:    16.0    SiO2:  0.79

ID: 1C1-074   Name: BEAVER POND                       State: ME  Date: 18OCT84
Sample Type: REGULAR            Latitude: 44-48'44"N    Longitude: 70-41'14"W
Elevation:  602   Surface Temp: 11.1  Stratified: MIXED       Site Depth:   5.2
Lake Area:        7 Watershed Area:      80 WA/LA:     10.8 Hydro Type: DRAINAGE
Residence Time:  0.33  Secchi Depth:  4.9   Turbidity:   0.8       Color:   25
Closed pH: 6.76        Equil. pH: 7.02                ANC:   69.7        DOC:  5.17
Closed DIC:  0.79   Equil. DIC:  0.78    Meas. Cond:  23.0   Cal. Cond:  23.9
Ca:   89.8          Mg:    33.2        Na:    77.9        K:    8.4       NH4:   1.8
SO4:    73.1        HCO3:   60.6        Cl:    44.8       NO3:    0.0         F:   2.5
Sum Cations:  211.3  Sum Anions:  181.1  Cations/Anions: 1.17   Tot. P:   7.3
Tot. Al:  111.5    Ext. Al:  14.6    Fe:   77.0      Mn:     3.0    SiO2:  1.13

ID: 1C1-075   Name: UPPER PIERCE POND                 State: ME  Date: 19OCT84
Sample Type: REGULAR            Latitude: 45-18'05"N    Longitude: 70-06'09"W
Elevation:  351   Surface Temp: 10.7  Stratified: MIXED       Site Depth:  20.4
Lake Area:      127 Watershed Area:   2134 WA/LA:     16.8 Hydro Type: DRAINAGE
Residence Time:  0.86  Secchi Depth:  4.4   Turbidity:   0.3       Color:   30
Closed pH: 7.21        Equil. pH: 7.38                ANC:  179.7        DOC:  5.64
Closed DIC:  1.88   Equil. DIC:  1.95    Meas. Cond:  32.2   Cal. Cond:  33.4
Ca:  210.0          Mg:    61.5        Na:    38.8        K:    8.8       NH4:   1.3
SO4:    91.7        HCO3:  146.6        Cl:    11.7       NO3:    1.0         F:   1.1
Sum Cations:  320.6  Sum Anions:  252.4  Cations/Anions: 1.27   Tot. P:   3.5
Tot. Al:   88.8    Ext. Al:   6.0    Fe:    9.0      Mn:    11.0    SiO2:  3.60

ID: 1C1-077   Name: TOBEY POND                        State: ME  Date: 19OCT84
Sample Type: REGULAR            Latitude: 45-26'42"N    Longitude: 69-59'10"W
Elevation:  381   Surface Temp:  9.3  Stratified: MIXED       Site Depth:   6.7
Lake Area:        5 Watershed Area:      44 WA/LA:      9.8 Hydro Type: DRAINAGE
Residence Time:  0.47  Secchi Depth:  4.0   Turbidity:   0.4       Color:   30
Closed pH: 6.91        Equil. pH: 7.30                ANC:  133.1        DOC:  6.07
Closed DIC:  1.65   Equil. DIC:  1.39    Meas. Cond:  28.8   Cal. Cond:  31.6
Ca:  168.5          Mg:    66.9        Na:    44.1        K:    8.7       NH4:   1.3
SO4:    96.6        HCO3:  116.3        Cl:    26.5       NO3:    0.0         F:   1.5
Sum Cations:  289.7  Sum Anions:  241.0  Cations/Anions: 1.20   Tot. P:   4.9
Tot. Al:   94.7    Ext. Al:   2.2    Fe:   17.0      Mn:     7.0    SiO2:  2.77

ID: 1C1-078   Name: BEAN POND                         State: ME  Date: 19OCT84
Sample Type: REGULAR            Latitude: 45-07'38"N    Longitude: 69-58'41"W
Elevation:  381   Surface Temp: 10.0  Stratified: MIXED       Site Depth:   9.1
Lake Area:       12 Watershed Area:     153 WA/LA:     12.3 Hydro Type: DRAINAGE
Residence Time:  0.52  Secchi Depth:  4.0   Turbidity:   0.9       Color:   40
Closed pH: 6.51        Equil. pH: 6.85                ANC:   70.0        DOC:  8.16
Closed DIC:  0.83   Equil. DIC:  0.69    Meas. Cond:  20.8   Cal. Cond:  19.5
Ca:   97.1          Mg:    44.2        Na:    39.4        K:    8.6       NH4:   1.5
SO4:    66.6        HCO3:   46.3        Cl:    11.3       NO3:    3.2         F:   1.6
Sum Cations:  191.0  Sum Anions:  129.0  Cations/Anions: 1.48   Tot. P:   4.7
Tot. Al:  261.2    Ext. Al:  22.2    Fe:   21.0      Mn:     5.0    SiO2:  2.11
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-079   Name: BROAD BAY                          State: NH  Date: 29OCT84
Sample Type: REGULAR            Latitude: 43-48'23"N    Longitude: 71-06'04"W
Elevation:  124   Surface Temp: 12.8  Stratified: MIXED      Site Depth:   19.8
Lake Area:     162 Watershed Area:  87770 WA/LA:    540.5 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:   5.2   Turbidity:   0.3      Color:    20
Closed pH: 6.71       Equil. pH: 7.15              ANC:  105.0         DOC:  2.53
Closed DIC:  1.43   Equil. DIC:  1.19    Meas. Cond:  30.5   Cal. Cond:  32.3
Ca:  102.0          Mg:    29.8       Na:  121.1          K:  11.3       NH4:  1.0
SO4:    69.1       HCO3:    92.6       Cl:   93.3        NO3:   1.6         F: 13.2
Sum Cations:  265.3  Sum Anions:  269.9  Cations/Anions: 0.98   Tot. P:   0.0
Tot. Al:    67.1    Ext. Al:  10.2     Fe:     8.0      Mn:     3.0     SiO2:  6.41

ID: 1C1-081   Name: BEAN POND                          State: VT  Date: 29OCT84
Sample Type: REGULAR            Latitude: 44-41'50"N    Longitude: 72-05'15"W
Elevation:  358   Surface Temp: 11.9  Stratified: MIXED      Site Depth:    0.9
Lake Area:      13 Watershed Area:    453 WA/LA:     35.1 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:   1.0   Turbidity:   0.6      Color:    20
Closed pH: 8.23       Equil. pH: 8.36              ANC: 1477.7         DOC:  3.00
Closed DIC: 16.28   Equil. DIC: 16.54    Meas. Cond: 173.1   Cal. Cond: 183.3
Ca: 1445.1          Mg:    93.7       Na:  154.8          K:  27.2       NH4:  1.0
SO4:   157.0       HCO3: 1307.5       Cl:  137.2        NO3:   1.2         F:  2.8
Sum Cations: 1721.8  Sum Anions: 1622.2  Cations/Anions: 1.06   Tot. P:   7.3
Tot. Al:    34.3    Ext. Al:   3.9     Fe:     5.0      Mn:     4.0     SiO2:  3.79

ID: 1C1-082   Name: ROCKY POND                         State: NH  Date: 25OCT84
Sample Type: REGULAR            Latitude: 43-50'40"N    Longitude: 71-59'33"W
Elevation:  613   Surface Temp:  9.8  Stratified: MIXED      Site Depth:    2.5
Lake Area:       8 Watershed Area:    148 WA/LA:     18.5 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:   2.4   Turbidity:   0.7      Color:    30
Closed pH: 5.24       Equil. pH: 5.33              ANC:   10.2         DOC:  4.84
Closed DIC:  0.41   Equil. DIC:  0.19    Meas. Cond:  15.3   Cal. Cond:  14.8
Ca:   46.2          Mg:    16.5       Na:   24.0          K:   5.9       NH4:  1.5
SO4:    83.8       HCO3:     3.2       Cl:    9.3        NO3:   0.5         F:  2.0
Sum Cations:   99.0  Sum Anions:   98.8  Cations/Anions: 1.00   Tot. P:   4.8
Tot. Al:   354.4    Ext. Al:  99.2     Fe:    55.0      Mn:    38.0     SiO2:  1.49

ID: 1C1-084   Name: UPPER BEECH POND                   State: NH  Date: 29OCT84
Sample Type: REGULAR            Latitude: 43-38'54"N    Longitude: 71-12'15"W
Elevation:  300   Surface Temp: 12.4  Stratified: MIXED      Site Depth:    4.8
Lake Area:      51 Watershed Area:    212 WA/LA:      4.2 Hydro Type: DRAINAGE
Residence Time:  0.73  Secchi Depth:   4.8   Turbidity:   0.6      Color:    10
Closed pH: 6.58       Equil. pH: 6.81              ANC:   50.7         DOC:  2.42
Closed DIC:  0.84   Equil. DIC:  0.61    Meas. Cond:  20.3   Cal. Cond:  20.0
Ca:   66.9          Mg:    25.6       Na:   60.4          K:   6.9       NH4:  0.8
SO4:    79.4       HCO3:    40.6       Cl:   34.7        NO3:   0.2         F:  2.2
Sum Cations:  161.0  Sum Anions:  157.1  Cations/Anions: 1.02   Tot. P:   2.1
Tot. Al:    29.1    Ext. Al:   2.7     Fe:     0.0      Mn:     5.0     SiO2:  1.80

ID: 1C1-086   Name: STAR LAKE                          State: NH  Date: 24OCT84
Sample Type: REGULAR            Latitude: 43-27'43"N    Longitude: 72-03'20"W
Elevation:  392   Surface Temp: 12.2  Stratified: WEAK       Site Depth:   13.4
Lake Area:      26 Watershed Area:    417 WA/LA:     16.2 Hydro Type: DRAINAGE
Residence Time:  0.70  Secchi Depth:   3.7   Turbidity:   0.5      Color:    20
Closed pH: 6.36       Equil. pH: 6.62              ANC:   35.6         DOC:  3.79
Closed DIC:  0.57   Equil. DIC:  0.37    Meas. Cond:  30.9   Cal. Cond:  32.2
Ca:  113.2          Mg:    33.4       Na:   96.0          K:  10.3       NH4:  1.1
SO4:   134.5       HCO3:    25.1       Cl:   76.3        NO3:   0.7         F:  3.0
Sum Cations:  254.6  Sum Anions:  239.1  Cations/Anions: 1.06   Tot. P:  12.1
Tot. Al:    52.9    Ext. Al:  13.0     Fe:    25.0      Mn:    30.0     SiO2:  3.75
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C1-087   Name: MAY POND                        State: NH  Date: 18OCT84
Sample Type: REGULAR           Latitude: 44-34'15"N    Longitude: 71-17'03"W
Elevation:  322   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   1.8
Lake Area:      21 Watershed Area:     171 WA/LA:      8.2 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  1.8  Turbidity:   0.3      Color:   15
Closed pH: 6.77         Equil. pH: 7.23              ANC:  105.1        DOC:  4.63
Closed DIC:  0.56   Equil. DIC:  1.21    Meas. Cond: 142.0   Cal. Cond: 149.3
Ca:  231.8           Mg:   97.1        Na:  823.0          K:  29.0       NH4:   4.5
SO4:  123.8        HCO3:   96.2        Cl:  946.5        NO3:   0.4          F:   3.3
Sum Cations: 1185.5  Sum Anions: 1170.2  Cations/Anions: 1.01   Tot. P:   6.9
Tot. Al:   55.2    Ext. Al:    9.3     Fe:    11.0       Mn:     7.0    SiO2:  0.74

ID: 1C1-088   Name: LUFKIN POND                     State: ME  Date: 18OCT84
Sample Type: REGULAR           Latitude: 44-50'25"N    Longitude: 70-27'46"W
Elevation:  282   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   7.4
Lake Area:      17 Watershed Area:     347 WA/LA:     20.5 Hydro Type: DRAINAGE
Residence Time:  0.26  Secchi Depth:  5.8  Turbidity:   0.5      Color:   15
Closed pH: 7.10         Equil. pH: 7.42              ANC:  146.2        DOC:  2.69
Closed DIC:  1.80   Equil. DIC:  1.76    Meas. Cond:  26.3   Cal. Cond:  26.2
Ca:  157.7           Mg:   33.2        Na:   35.2          K:  12.0       NH4:   0.6
SO4:   69.4        HCO3:  135.3        Cl:    9.5        NO3:   0.0          F:   1.2
Sum Cations:  238.8  Sum Anions:  215.7  Cations/Anions: 1.11   Tot. P:  10.0
Tot. Al:   13.9    Ext. Al:    7.6     Fe:    16.0       Mn:    15.0    SiO2:  1.18

ID: 1C2-002   Name: IRON POND                       State: ME  Date: 19OCT84
Sample Type: REGULAR           Latitude: 45-27'30"N    Longitude: 70-22'30"W
Elevation:  510   Surface Temp:  9.2  Stratified: MIXED      Site Depth:   2.1
Lake Area:      10 Watershed Area:     174 WA/LA:     16.7 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  0.9  Turbidity:   1.8      Color:   55
Closed pH: 6.87         Equil. pH: 7.00              ANC:   83.2        DOC: 10.47
Closed DIC:  0.74   Equil. DIC:  0.73    Meas. Cond:  27.1   Cal. Cond:  27.2
Ca:  137.0           Mg:   58.1        Na:   63.4          K:   7.6       NH4:   1.4
SO4:  107.9        HCO3:   45.6        Cl:   11.5        NO3:   3.7          F:   3.3
Sum Cations:  267.8  Sum Anions:  172.1  Cations/Anions: 1.56   Tot. P:   4.2
Tot. Al:  221.5    Ext. Al:   21.9     Fe:    15.0       Mn:     0.0    SiO2:  3.51

ID: 1C2-005   Name: RICHARDSON POND                 State: ME  Date: 18OCT84
Sample Type: REGULAR           Latitude: 44-55'30"N    Longitude: 70-55'00"W
Elevation:  459   Surface Temp: 10.9  Stratified: MIXED      Site Depth:  10.9
Lake Area:     181 Watershed Area:    3569 WA/LA:     19.8 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  3.3  Turbidity:   0.6      Color:   30
Closed pH: 6.99         Equil. pH: 7.06              ANC:   86.4        DOC:  6.38
Closed DIC:  0.96   Equil. DIC:  0.89    Meas. Cond:  25.7   Cal. Cond:  26.1
Ca:  131.8           Mg:   48.0        Na:   47.8          K:   9.8       NH4:   1.2
SO4:  103.7        HCO3:   62.0        Cl:   16.7        NO3:   0.2          F:   2.1
Sum Cations:  238.8  Sum Anions:  184.8  Cations/Anions: 1.29   Tot. P:   8.3
Tot. Al:   65.2    Ext. Al:   11.8     Fe:    36.0       Mn:     7.0    SiO2:  3.50

ID: 1C2-006   Name: UNKNOWN POND                    State: VT  Date: 25OCT84
Sample Type: REGULAR           Latitude: 44-39'55"N    Longitude: 71-43'22"W
Elevation:  508   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   3.4
Lake Area:       5 Watershed Area:      73 WA/LA:     16.2 Hydro Type: DRAINAGE
Residence Time:  0.17  Secchi Depth:  2.0  Turbidity:   0.4      Color:   65
Closed pH: 6.30         Equil. pH: 6.90              ANC:   74.7        DOC:  8.99
Closed DIC:  1.08   Equil. DIC:  0.58    Meas. Cond:  22.3   Cal. Cond:  27.0
Ca:  169.0           Mg:   49.5        Na:   53.5          K:  15.8       NH4:   2.4
SO4:   91.6        HCO3:   51.2        Cl:    4.9        NO3:   0.4          F:   4.0
Sum Cations:  290.6  Sum Anions:  152.1  Cations/Anions: 1.91   Tot. P:   5.3
Tot. Al:  271.5    Ext. Al:   38.6     Fe:   115.0       Mn:    19.0    SiO2:  6.20
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C2-007   Name: BEAL POND                         State: ME  Date: 18OCT84
Sample Type: REGULAR             Latitude: 44-54'14"N   Longitude: 70-24'30"W
Elevation:  401   Surface Temp: 11.1  Stratified: MIXED     Site Depth:   4.3
Lake Area:      11 Watershed Area:     111 WA/LA:    10.0 Hydro Type: DRAINAGE
Residence Time:  0.30  Secchi Depth:  3.9   Turbidity:   0.5     Color:    18
Closed pH: 6.53       Equil. pH: 6.90              ANC:   54.0        DOC:  4.92
Closed DIC:  0.77   Equil. DIC:  0.68    Meas. Cond:  16.8   Cal. Cond:  17.5
Ca:   73.3          Mg:    39.0       Na:    36.8          K:   5.5      NH4:  0.8
SO4:    74.3       HCO3:    40.6       Cl:    10.3       NO3:    0.2         F:  1.0
Sum Cations:   155.7  Sum Anions:  126.4  Cations/Anions: 1.23   Tot. P:    8.2
Tot. Al:    45.3    Ext. Al:   12.2     Fe:     7.5      Mn:      4.0     SiO2:  0.10

ID: 1C2-009   Name: JESSIE POND                       State: ME  Date: 24OCT84
Sample Type: REGULAR             Latitude: 44-44'52"N   Longitude: 70-15'04"W
Elevation:  354   Surface Temp: 11.2  Stratified: MIXED     Site Depth:   7.3
Lake Area:       4 Watershed Area:      28 WA/LA:     6.5 Hydro Type: DRAINAGE
Residence Time:  0.76  Secchi Depth:  3.6   Turbidity:   0.6     Color:    10
Closed pH: 7.36       Equil. pH: 7.80              ANC:  387.7        DOC:  3.43
Closed DIC:  4.26   Equil. DIC:  4.18    Meas. Cond:  47.0   Cal. Cond:  48.8
Ca:  370.3          Mg:    34.9       Na:    37.3          K:  11.1      NH4:  0.7
SO4:    73.1       HCO3:   339.0       Cl:    14.4       NO3:    0.2         F:  1.0
Sum Cations:   454.2  Sum Anions:  428.8  Cations/Anions: 1.06   Tot. P:    5.6
Tot. Al:    22.9    Ext. Al:    6.5     Fe:    49.0      Mn:      8.0     SiO2:  3.79

ID: 1C2-010   Name: ABBOTTS POND                      State: ME  Date: 24OCT84
Sample Type: REGULAR             Latitude: 44-25'45"N   Longitude: 70-31'00"W
Elevation:  317   Surface Temp: 11.5  Stratified: WEAK      Site Depth:  15.2
Lake Area:      10 Watershed Area:      93 WA/LA:     9.4 Hydro Type: DRAINAGE
Residence Time:  1.35  Secchi Depth:  7.6   Turbidity:   0.4     Color:     5
Closed pH: 6.32       Equil. pH: 6.56              ANC:   33.0        DOC:  2.07
Closed DIC:  0.38   Equil. DIC:  0.28    Meas. Cond:  16.3   Cal. Cond:  17.2
Ca:   65.9          Mg:    23.0       Na:    36.8          K:   5.6      NH4:  0.4
SO4:    86.9       HCO3:    24.6       Cl:    18.6       NO3:    0.3         F:  1.8
Sum Cations:   132.2  Sum Anions:  132.1  Cations/Anions: 1.00   Tot. P:    5.6
Tot. Al:    74.6    Ext. Al:    6.5     Fe:    67.0      Mn:     19.0     SiO2:  0.87

ID: 1C2-011   Name: MUD POND                          State: ME  Date: 25OCT84
Sample Type: REGULAR             Latitude: 44-17'30"N   Longitude: 70-39'00"W
Elevation:  209   Surface Temp:  9.7  Stratified: MIXED     Site Depth:   0.9
Lake Area:      22 Watershed Area:     171 WA/LA:     7.9 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  0.9   Turbidity:   0.5     Color:    15
Closed pH: 6.67       Equil. pH: 8.13              ANC:  735.8        DOC:  4.52
Closed DIC:  7.94   Equil. DIC:  8.45    Meas. Cond:  87.5   Cal. Cond:  90.5
Ca:  698.1          Mg:    52.1       Na:    95.4          K:  10.9      NH4:  1.6
SO4:    96.1       HCO3:   622.1       Cl:    61.9       NO3:    0.0         F:  3.1
Sum Cations:   858.0  Sum Anions:  786.8  Cations/Anions: 1.09   Tot. P:    5.2
Tot. Al:    28.8    Ext. Al:   10.6     Fe:    29.0      Mn:      0.0     SiO2:  2.49

ID: 1C2-012   Name: BLACK POND                        State: ME  Date: 25OCT84
Sample Type: REGULAR             Latitude: 44-08'45"N   Longitude: 70-48'00"W
Elevation:  152   Surface Temp: 11.1  Stratified: MIXED     Site Depth:   4.2
Lake Area:       7 Watershed Area:     477 WA/LA:    73.4 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  2.0   Turbidity:   1.0     Color:    40
Closed pH: 6.31       Equil. pH: 7.02              ANC:   86.6        DOC:  8.38
Closed DIC:  1.56   Equil. DIC:  0.77    Meas. Cond:  19.0   Cal. Cond:  19.6
Ca:  102.9          Mg:    30.3       Na:    59.6          K:   3.5      NH4:  1.1
SO4:    50.4       HCO3:    56.7       Cl:    23.1       NO3:    0.0         F:  2.5
Sum Cations:   197.7  Sum Anions:  132.7  Cations/Anions: 1.49   Tot. P:   10.8
Tot. Al:    80.2    Ext. Al:   18.2     Fe:    57.0      Mn:      9.0     SiO2:  0.87
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C2-016   Name: TRAFTON POND                          State: ME  Date: 25OCT84
Sample Type: REGULAR            Latitude: 43-50'45"N    Longitude: 70-53'30"W
Elevation:  117   Surface Temp: 12.5  Stratified: WEAK      Site Depth:  11.9
Lake Area:      20 Watershed Area:     899 WA/LA:    45.4 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  6.2   Turbidity:   0.3      Color:   20
Closed pH: 6.89        Equil. pH: 7.33                ANC:  135.1        DOC:  2.75
Closed DIC:  1.70  Equil. DIC:  1.53    Meas. Cond:  30.9   Cal. Cond:  32.8
Ca:  138.4           Mg:   40.9        Na:   87.2         K:  13.8       NH4:   1.1
SO4:   89.5      HCO3:  121.0       Cl:    53.4        NO3:    0.2          F:   4.0
Sum Cations:  281.4  Sum Anions:  268.4  Cations/Anions: 1.05   Tot. P:   6.8
Tot. Al:   23.1    Ext. Al:   8.0    Fe:    47.0     Mn:    16.0    SiO2:  2.01


ID: 1C2-018   Name: NORTHWEST POND                        State: ME  Date: 29OCT84
Sample Type: REGULAR            Latitude: 43-34'45"N    Longitude: 70-47'45"W
Elevation:  130   Surface Temp: 12.0  Stratified: MIXED     Site Depth:   4.0
Lake Area:      13 Watershed Area:     933 WA/LA:    72.9 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.5   Turbidity:   0.7      Color:   45
Closed pH: 6.87        Equil. pH: 7.56                ANC:  269.7        DOC:  5.16
Closed DIC:  3.59  Equil. DIC:  2.98    Meas. Cond:  44.6   Cal. Cond:  44.0
Ca:  190.0           Mg:   80.9        Na:   94.4         K:  23.2       NH4:   2.1
SO4:   82.5      HCO3:  230.1       Cl:    59.9        NO3:    0.6          F:   5.2
Sum Cations:  390.8  Sum Anions:  378.6  Cations/Anions: 1.03   Tot. P:  10.7
Tot. Al:   89.9    Ext. Al:   9.9    Fe:   157.0     Mn:    23.0    SiO2:  9.85


ID: 1C2-019   Name: FOSTERS POND                          State: VT  Date: 25OCT84
Sample Type: REGULAR            Latitude: 44-19'45"N    Longitude: 72-12'45"W
Elevation:  465   Surface Temp: 10.5  Stratified: MIXED     Site Depth:   2.8
Lake Area:      23 Watershed Area:     251 WA/LA:    10.8 Hydro Type: DRAINAGE
Residence Time:  0.25  Secchi Depth:  0.9   Turbidity:   3.7      Color:   20
Closed pH: 8.00        Equil. pH: 8.21                ANC:  886.1        DOC:  8.62
Closed DIC: 10.16  Equil. DIC:  9.51    Meas. Cond: 100.3   Cal. Cond: 104.1
Ca:  806.9           Mg:   82.2        Na:   35.4         K:   7.6       NH4:   1.1
SO4:  135.8      HCO3:  830.1       Cl:    14.2        NO3:    0.0          F:   1.3
Sum Cations:  933.1  Sum Anions:  986.6  Cations/Anions: 0.95   Tot. P:   5.3
Tot. Al:   58.7    Ext. Al:   7.4    Fe:    26.0     Mn:     0.0    SiO2:  7.00


ID: 1C2-021   Name: THE POGUE                             State: VT  Date: 23OCT84
Sample Type: REGULAR            Latitude: 43-38'00"N    Longitude: 72-32'35"W
Elevation:  384   Surface Temp: 13.1  Stratified: MIXED     Site Depth:   1.8
Lake Area:       5 Watershed Area:      34 WA/LA:     6.8 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  0.9   Turbidity:   0.9      Color:   25
Closed pH: 8.32        Equil. pH: 8.35                ANC: 1370.3        DOC:  4.98
Closed DIC: 15.49  Equil. DIC: 14.93    Meas. Cond: 148.5   Cal. Cond: 160.8
Ca: 1216.1           Mg:  260.8        Na:   34.0         K:  24.5       NH4:   0.8
SO4:  154.1      HCO3: 1273.6       Cl:    14.2        NO3:    0.0          F:   1.0
Sum Cations: 1536.2  Sum Anions: 1455.8  Cations/Anions: 1.06   Tot. P:   8.8
Tot. Al:  177.9    Ext. Al:  10.2    Fe:    31.0     Mn:     8.0    SiO2:  0.02


ID: 1C2-022   Name: (NO NAME)                             State: NH  Date: 25OCT84
Sample Type: REGULAR            Latitude: 43-52'50"N    Longitude: 71-18'30"W
Elevation:  299   Surface Temp: 11.3  Stratified: MIXED     Site Depth:   1.2
Lake Area:       8 Watershed Area:      83 WA/LA:    10.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.2   Turbidity:   1.0      Color:   45
Closed pH: 5.78        Equil. pH: 6.27                ANC:   32.6        DOC:  8.04
Closed DIC:  0.86  Equil. DIC:  0.37    Meas. Cond:  15.7   Cal. Cond:  15.7
Ca:   52.2           Mg:   19.2        Na:   58.3         K:   4.3       NH4:   1.6
SO4:   57.0      HCO3:   17.3       Cl:    23.1        NO3:    0.0          F:  10.6
Sum Cations:  137.1  Sum Anions:  107.9  Cations/Anions: 1.27   Tot. P:   8.3
Tot. Al:  104.4    Ext. Al:  27.1    Fe:   136.0     Mn:    21.0    SiO2:  1.82
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C2-023   Name: SQUAM LAKE                          State: NH  Date: 24OCT84
Sample Type: REGULAR              Latitude: 43-46'00"N    Longitude: 71-31'00"W
Elevation:  171   Surface Temp: 13.4  Stratified: WEAK       Site Depth:  23.4
Lake Area:   2715 Watershed Area:  10984 WA/LA:      4.0 Hydro Type: DRAINAGE
Residence Time:  3.54  Secchi Depth:  7.4   Turbidity:   0.2       Color:    5
Closed pH: 6.85        Equil. pH: 7.13              ANC:   97.5        DOC:  2.15
Closed DIC:  1.26   Equil. DIC:  1.10   Meas. Cond:  35.8   Cal. Cond:  36.7
Ca:  127.8          Mg:   38.0        Na:  115.4         K:  12.6       NH4:  0.7
SO4:  104.7        HCO3:   84.0        Cl:  105.1        NO3:   0.7          F:  2.5
Sum Cations:  294.6  Sum Anions:  297.0  Cations/Anions: 0.99   Tot. P:   4.3
Tot. Al:     8.1    Ext. Al:    5.3    Fe:     6.0     Mn:     7.0    SiO2:  0.63

ID: 1C2-024   Name: LAKE WAUKEWAN                       State: NH  Date: 24OCT84
Sample Type: REGULAR              Latitude: 43-39'30"N    Longitude: 71-31'30"W
Elevation:  164   Surface Temp: 13.5  Stratified: MIXED      Site Depth:   8.8
Lake Area:    389 Watershed Area:   3318 WA/LA:      8.5 Hydro Type: DRAINAGE
Residence Time:  0.82  Secchi Depth:  6.7   Turbidity:   0.3       Color:   10
Closed pH: 6.90        Equil. pH: 7.24              ANC:  116.7        DOC:  4.37
Closed DIC:  1.52   Equil. DIC:  1.31   Meas. Cond:  55.5   Cal. Cond:  59.9
Ca:  168.0          Mg:   44.7        Na:  256.8         K:  16.3       NH4:  1.0
SO4:  101.6        HCO3:  107.8        Cl:  266.5        NO3:   0.0          F:  1.9
Sum Cations:  486.9  Sum Anions:  478.0  Cations/Anions: 1.02   Tot. P:   3.5
Tot. Al:     7.9    Ext. Al:    4.0    Fe:     0.0     Mn:     0.0    SiO2:  1.48

ID: 1C2-026   Name: WAUKEENA LAKE                       State: NH  Date: 24OCT84
Sample Type: REGULAR              Latitude: 43-31'00"N    Longitude: 71-53'45"W
Elevation:  340   Surface Temp: 12.9  Stratified: MIXED      Site Depth:   5.4
Lake Area:     25 Watershed Area:    114 WA/LA:      4.6 Hydro Type: DRAINAGE
Residence Time:  0.85  Secchi Depth:  3.8   Turbidity:   0.8       Color:   15
Closed pH: 7.37        Equil. pH: 6.71              ANC:   42.0        DOC:  3.15
Closed DIC:  0.65   Equil. DIC:  0.44   Meas. Cond:  22.0   Cal. Cond:  23.8
Ca:   92.5          Mg:   30.1        Na:   52.8         K:   8.1       NH4:  1.0
SO4:  111.7        HCO3:   36.4        Cl:   33.8        NO3:   0.1          F:  2.1
Sum Cations:  184.7  Sum Anions:  184.1  Cations/Anions: 1.00   Tot. P:   7.2
Tot. Al:    51.3    Ext. Al:    6.9    Fe:    15.0     Mn:     3.0    SiO2:  0.55

ID: 1C2-027   Name: ADDER POND                          State: NH  Date: 24OCT84
Sample Type: REGULAR              Latitude: 43-26'48"N    Longitude: 71-48'33"W
Elevation:  195   Surface Temp: 13.0  Stratified: MIXED      Site Depth:   4.8
Lake Area:     11 Watershed Area:     91 WA/LA:      8.5 Hydro Type: DRAINAGE
Residence Time:  0.45  Secchi Depth:  1.6   Turbidity:   0.7       Color:   45
Closed pH: 6.93        Equil. pH: 7.19              ANC:  109.6        DOC:  5.05
Closed DIC:  1.19   Equil. DIC:  1.09   Meas. Cond:  27.4   Cal. Cond:  29.2
Ca:  136.0          Mg:   44.4        Na:   55.5         K:  18.6       NH4:  3.6
SO4:  108.2        HCO3:   90.7        Cl:   19.9        NO3:   0.1          F:  1.5
Sum Cations:  258.4  Sum Anions:  220.5  Cations/Anions: 1.17   Tot. P:   5.3
Tot. Al:    40.5    Ext. Al:    8.7    Fe:    47.0     Mn:     9.0    SiO2:  3.59

ID: 1C2-028   Name: SUNSET LAKE                         State: NH  Date: 30OCT84
Sample Type: REGULAR              Latitude: 43-28'15"N    Longitude: 71-18'00"W
Elevation:  246   Surface Temp: 12.0  Stratified: MIXED      Site Depth:  11.0
Lake Area:     87 Watershed Area:   1417 WA/LA:     16.2 Hydro Type: DRAINAGE
Residence Time:  0.58  Secchi Depth:  6.3   Turbidity:   0.2       Color:   15
Closed pH: 6.50        Equil. pH: 6.87              ANC:   59.1        DOC:  2.59
Closed DIC:  0.95   Equil. DIC:  0.73   Meas. Cond:  20.0   Cal. Cond:  21.5
Ca:   91.3          Mg:   25.8        Na:   60.9         K:   6.7       NH4:  1.1
SO4:   81.1        HCO3:   44.0        Cl:   28.5        NO3:   0.2          F:  5.7
Sum Cations:  186.2  Sum Anions:  159.6  Cations/Anions: 1.17   Tot. P:   3.9
Tot. Al:    23.6    Ext. Al:    2.0    Fe:    71.0     Mn:    21.0    SiO2:  2.88
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C2-029   Name: MEETINGHOUSE POND                      State: NH  Date: 30OCT84
Sample Type: REGULAR              Latitude: 43-24'45"N    Longitude: 71-21-40"W
Elevation:  272   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   2.1
Lake Area:       8 Watershed Area:     85 WA/LA:     10.4 Hydro Type: DRAINAGE
Residence Time:  0.17  Secchi Depth:  2.1   Turbidity:   0.4     Color:   25
Closed pH: 6.51         Equil. pH: 7.05               ANC:   84.5        DOC:  4.03
Closed DIC:  1.40   Equil. DIC:  0.96    Meas. Cond:  26.4   Cal. Cond:  27.1
Ca:   93.8          Mg:    52.1       Na:   68.2         K:  11.4       NH4:   1.1
SO4:    79.8       HCO3:    68.9      Cl:   61.9        NO3:    0.2         F:   2.6
Sum Cations:  226.8  Sum Anions:  213.5  Cations/Anions: 1.06   Tot. P:    8.2
Tot. Al:    31.9    Ext. Al:    4.6    Fe:    29.0      Mn:     8.0    SiO2:  1.25

ID: 1C2-030   Name: CRANE NECK POND                        State: NH  Date: 30OCT84
Sample Type: REGULAR              Latitude: 43-20'20"N    Longitude: 71-32'30"W
Elevation:  168   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   2.4
Lake Area:       5 Watershed Area:    332 WA/LA:     72.2 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.6   Turbidity:   1.3     Color:   75
Closed pH: 6.22         Equil. pH: 7.09               ANC:  112.8        DOC:  9.52
Closed DIC:  2.36   Equil. DIC:  1.01    Meas. Cond:  61.5   Cal. Cond:  64.4
Ca:  126.5          Mg:    87.9       Na:  304.9         K:  24.4       NH4:   1.4
SO4:  130.0        HCO3:    78.0      Cl:  272.6        NO3:    0.3         F:   1.9
Sum Cations:  545.8  Sum Anions:  482.7  Cations/Anions: 1.13   Tot. P:   14.8
Tot. Al:    61.0    Ext. Al:   15.1    Fe:   101.0      Mn:    22.0    SiO2:  1.17

ID: 1C2-032   Name: CROOKED POND                           State: NH  Date: 30OCT84
Sample Type: REGULAR              Latitude: 43-17'40"N    Longitude: 71-25'45"W
Elevation:  161   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   5.8
Lake Area:      12 Watershed Area:     83 WA/LA:      7.0 Hydro Type: DRAINAGE
Residence Time:  0.80  Secchi Depth:  5.3   Turbidity:   0.3     Color:   20
Closed pH: 6.22         Equil. pH: 6.94               ANC:   71.1        DOC:  4.13
Closed DIC:  1.68   Equil. DIC:  0.77    Meas. Cond:  21.7   Cal. Cond:  23.4
Ca:   63.7          Mg:    44.9       Na:   77.5         K:   7.9       NH4:   3.3
SO4:    78.2       HCO3:    62.2      Cl:   42.1        NO3:    0.4         F:   2.2
Sum Cations:  197.8  Sum Anions:  185.1  Cations/Anions: 1.07   Tot. P:    7.8
Tot. Al:    45.2    Ext. Al:    6.9    Fe:    80.0      Mn:    13.0    SiO2:  0.51

ID: 1C2-033   Name: LONG POND                              State: NH  Date: 01NOV84
Sample Type: REGULAR              Latitude: 43-12'14"N    Longitude: 71-48'43"W
Elevation:  155   Surface Temp: 11.2  Stratified: MIXED      Site Depth:   3.6
Lake Area:      34 Watershed Area:   1691 WA/LA:     49.7 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  1.9   Turbidity:   0.6     Color:   70
Closed pH: 6.26         Equil. pH: 7.18               ANC:  110.2        DOC:  8.10
Closed DIC:  2.40   Equil. DIC:  1.01    Meas. Cond:  28.1   Cal. Cond:  28.2
Ca:  120.0          Mg:    40.9       Na:   85.6         K:  14.9       NH4:   1.8
SO4:    67.8       HCO3:    93.1      Cl:   46.8        NO3:    0.0         F:   2.3
Sum Cations:  263.6  Sum Anions:  210.0  Cations/Anions: 1.26   Tot. P:    9.4
Tot. Al:    80.6    Ext. Al:   25.6    Fe:    80.0      Mn:    10.0    SiO2:  3.29

ID: 1C2-034   Name: MARSH POND                             State: NH  Date: 30OCT84
Sample Type: REGULAR              Latitude: 43-14'40"N    Longitude: 71-23'45"W
Elevation:  157   Surface Temp: 11.8  Stratified: MIXED      Site Depth:   0.9
Lake Area:       8 Watershed Area:    189 WA/LA:     23.3 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.9   Turbidity:   1.2     Color:   55
Closed pH: 6.24         Equil. pH: 6.71               ANC:  171.8        DOC:  9.32
Closed DIC:  4.21   Equil. DIC:  1.84    Meas. Cond:  83.7   Cal. Cond:  84.6
Ca:  130.2          Mg:    69.6       Na:  488.1         K:  24.8       NH4:   3.7
SO4:    88.2       HCO3:   139.6      Cl:  432.5        NO3:    0.5         F:   3.0
Sum Cations:  716.8  Sum Anions:  663.8  Cations/Anions: 1.08   Tot. P:   24.2
Tot. Al:    53.7    Ext. Al:    8.1    Fe:   174.0      Mn:    44.0    SiO2:  0.93
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C2-035   Name: SMITH POND                        State: NH  Date: 24OCT84
Sample Type: REGULAR           Latitude: 43-09'15"N    Longitude: 72-01'45"W
Elevation:  328   Surface Temp: 13.4  Stratified: MIXED      Site Depth:   8.2
Lake Area:       11 Watershed Area:     215 WA/LA:     19.0 Hydro Type: DRAINAGE
Residence Time:  0.30  Secchi Depth:  3.3   Turbidity:   0.5      Color:   10
Closed pH: 6.77        Equil. pH: 6.95              ANC:   73.6         DOC:  2.38
Closed DIC:  1.08   Equil. DIC:  0.79   Meas. Cond:  25.4   Cal. Cond:  25.8
Ca:  110.3          Mg:    30.8       Na:    54.8        K:  10.2       NH4:  0.7
SO4:  118.3       HCO3:   67.1        Cl:    18.3      NO3:   0.1         F:  2.4
Sum Cations:  207.0  Sum Anions:  206.3  Cations/Anions: 1.00   Tot. P:   6.8
Tot. Al:    15.9    Ext. Al:    5.4    Fe:    19.0     Mn:    2.0    SiO2:  3.11

ID: 1C2-036   Name: KIMBALL POND                      State: NH  Date: 01NOV84
Sample Type: REGULAR           Latitude: 43-11'15"N    Longitude: 71-40'00"W
Elevation:  148   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   0.9
Lake Area:       11 Watershed Area:     212 WA/LA:     19.4 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.9   Turbidity:   1.0      Color:   25
Closed pH: 6.63        Equil. pH: 7.45              ANC:  192.3         DOC:  5.03
Closed DIC:  3.00   Equil. DIC:  2.01   Meas. Cond: 290.6   Cal. Cond: 321.2
Ca:  394.1          Mg:   127.5       Na: 1833.5         K:  45.3       NH4:  4.2
SO4:  210.8       HCO3:  162.5        Cl: 2243.3       NO3:   1.1         F:  2.0
Sum Cations: 2404.8  Sum Anions: 2619.8  Cations/Anions: 0.92   Tot. P:  13.3
Tot. Al:    69.6    Ext. Al:    3.1    Fe:    88.0     Mn:   32.0    SiO2:  0.82

ID: 1C2-037   Name: MENDUMS POND                      State: NH  Date: 30OCT84
Sample Type: REG/SPC/NRC/      Latitude: 43-10'30"N    Longitude: 71-04'00"W
Elevation:   67   Surface Temp: 13.2  Stratified: MIXED      Site Depth:   6.6
Lake Area:       99 Watershed Area:    1779 WA/LA:     18.0 Hydro Type: DRAINAGE
Residence Time:  0.41  Secchi Depth:  4.5   Turbidity:   0.2      Color:   25
Closed pH: 5.78        Equil. pH: 6.03              ANC:   16.6         DOC:  4.10
Closed DIC:  0.52   Equil. DIC:  0.22   Meas. Cond:  19.5   Cal. Cond:  20.6
Ca:   46.6          Mg:    25.9       Na:    81.6        K:   6.9       NH4:  1.4
SO4:   82.3       HCO3:    8.9        Cl:    53.7      NO3:   0.6         F:  1.8
Sum Cations:  164.0  Sum Anions:  147.2  Cations/Anions: 1.11   Tot. P:   3.2
Tot. Al:    92.3    Ext. Al:   32.4    Fe:    30.0     Mn:   20.0    SiO2:  2.99

ID: 1C2-039   Name: (NO NAME)                         State: NH  Date: 01NOV84
Sample Type: REGULAR           Latitude: 43-03'15"N    Longitude: 71-52'15"W
Elevation:  314   Surface Temp:  8.0  Stratified: MIXED      Site Depth:   0.9
Lake Area:        7 Watershed Area:     124 WA/LA:     18.2 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.4   Turbidity:   7.5      Color:   80
Closed pH: 5.75        Equil. pH: 6.03              ANC:   27.4         DOC: 17.05
Closed DIC:  0.46   Equil. DIC:  0.19   Meas. Cond:  21.8   Cal. Cond:  21.2
Ca:   68.5          Mg:    35.0       Na:    68.6        K:   2.2       NH4:  1.3
SO4:   76.5       HCO3:   19.5        Cl:    39.7      NO3:   0.0         F:  1.9
Sum Cations:  179.9  Sum Anions:  137.6  Cations/Anions: 1.31   Tot. P:  17.0
Tot. Al:   130.0    Ext. Al:   24.6    Fe:    36.0     Mn:   59.0    SiO2:  4.80

ID: 1C2-040   Name: DORRS POND                        State: NH  Date: 30OCT84
Sample Type: REGULAR           Latitude: 43-00'50"N    Longitude: 71-27'15"W
Elevation:   82   Surface Temp: 13.1  Stratified: MIXED      Site Depth:   1.2
Lake Area:        9 Watershed Area:     583 WA/LA:     63.4 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.2   Turbidity:   2.6      Color:   25
Closed pH: 7.13        Equil. pH: 7.73              ANC:  361.0         DOC:  4.86
Closed DIC:  4.43   Equil. DIC:  4.17   Meas. Cond: 448.1   Cal. Cond: 461.3
Ca:  957.1          Mg:   398.1       Na: 2022.3         K:  90.7       NH4:  2.3
SO4:  879.9       HCO3:  303.1        Cl: 2501.3       NO3:   0.8         F:  5.6
Sum Cations: 3470.6  Sum Anions: 3691.1  Cations/Anions: 0.94   Tot. P:  10.2
Tot. Al:    58.2    Ext. Al:    0.2    Fe:   104.0     Mn:  156.0    SiO2:  2.11
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C2-041   Name: JUGGERNAUT POND                    State: NH  Date: 01NOV84
Sample Type: REGULAR           Latitude: 42-57'35"N    Longitude: 72-00'45"W
Elevation:  360   Surface Temp: 12.4  Stratified: MIXED      Site Depth:   7.3
Lake Area:       6 Watershed Area:      47 WA/LA:       8.4 Hydro Type: DRAINAGE
Residence Time:  0.59  Secchi Depth:  4.4   Turbidity:   0.4      Color:    5
Closed pH: 5.46        Equil. pH: 5.75              ANC:     6.7          DOC:  1.80
Closed DIC:  0.57   Equil. DIC:  0.19    Meas. Cond:  19.2   Cal. Cond:  20.0
Ca:   59.2          Mg:    22.3      Na:    45.5          K:    6.9        NH4:   1.1
SO4:  117.9        HCO3:     8.1      Cl:   21.4         NO3:    0.4          F:   2.7
Sum Cations:  137.4  Sum Anions:  150.5  Cations/Anions: 0.91   Tot. P:   7.4
Tot. Al:  135.4    Ext. Al:  30.1     Fe:    29.0        Mn:    36.0     SiO2:  0.73

ID: 1C2-042   Name: STONE POND                         State: NH  Date: 01NOV84
Sample Type: REG/SPC/NRC/      Latitude: 42-53'45"N    Longitude: 72-09'15"W
Elevation:  395   Surface Temp: 11.9  Stratified: MIXED      Site Depth:  10.4
Lake Area:      31 Watershed Area:     212 WA/LA:       6.8 Hydro Type: DRAINAGE
Residence Time:  1.03  Secchi Depth:  4.8   Turbidity:   0.6      Color:   10
Closed pH: 6.34        Equil. pH: 6.66              ANC:    33.0          DOC:  1.78
Closed DIC:  0.71   Equil. DIC:  0.40    Meas. Cond:  23.3   Cal. Cond:  24.2
Ca:   56.7          Mg:    43.0      Na:    59.6          K:   17.2        NH4:   1.2
SO4:  116.8        HCO3:    31.5      Cl:   40.5         NO3:    0.6          F:   2.5
Sum Cations:  178.2  Sum Anions:  191.9  Cations/Anions: 0.93   Tot. P:   4.9
Tot. Al:   27.1    Ext. Al:   2.7     Fe:    10.0        Mn:    11.0     SiO2:  0.99

ID: 1C2-043   Name: SEBBINS POND                       State: NH  Date: 31OCT84
Sample Type: REGULAR           Latitude: 42-55'45"N    Longitude: 71-28'45"W
Elevation:   59   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   5.5
Lake Area:       8 Watershed Area:      60 WA/LA:       7.6 Hydro Type: DRAINAGE
Residence Time:  0.73  Secchi Depth:  2.1   Turbidity:   0.9      Color:   25
Closed pH: 6.78        Equil. pH: 7.68              ANC:   312.2          DOC:  3.25
Closed DIC:  4.65   Equil. DIC:  3.60    Meas. Cond: 136.0   Cal. Cond: 142.7
Ca:  401.7          Mg:   153.0      Na:   562.9          K:   32.8        NH4:   3.2
SO4:  206.5        HCO3:   276.9      Cl:  664.5         NO3:    1.8          F:   1.9
Sum Cations: 1153.7  Sum Anions: 1151.9  Cations/Anions: 1.00   Tot. P:  18.0
Tot. Al:   28.6    Ext. Al:   2.2     Fe:    41.0        Mn:    15.0     SiO2:  7.40

ID: 1C2-044   Name: SCOTT POND                         State: NH  Date: 01NOV84
Sample Type: REGULAR           Latitude: 42-47'15"N    Longitude: 72-07'00"W
Elevation:  327   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   1.8
Lake Area:      51 Watershed Area:    1582 WA/LA:      30.8 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  1.8   Turbidity:   0.8      Color:   70
Closed pH: 5.32        Equil. pH: 5.52              ANC:    12.8          DOC:  7.22
Closed DIC:  1.14   Equil. DIC:  0.18    Meas. Cond:  29.3   Cal. Cond:  29.3
Ca:   64.3          Mg:    27.0      Na:   123.5          K:    7.5        NH4:   1.6
SO4:   85.4        HCO3:     5.4      Cl:  108.7         NO3:    0.5          F:   3.9
Sum Cations:  228.3  Sum Anions:  203.9  Cations/Anions: 1.12   Tot. P:  19.4
Tot. Al:  139.7    Ext. Al:  51.1     Fe:   133.0        Mn:    45.0     SiO2:  0.50

ID: 1C2-045   Name: SIP POND                           State: NH  Date: 01NOV84
Sample Type: REGULAR           Latitude: 42-44'00"N    Longitude: 72-06'15"W
Elevation:  269   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   2.1
Lake Area:      52 Watershed Area:    1228 WA/LA:      23.8 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  1.9   Turbidity:   1.3      Color:   35
Closed pH: 5.29        Equil. pH: 5.50              ANC:    10.0          DOC:  5.93
Closed DIC:  0.56   Equil. DIC:  0.19    Meas. Cond:  36.2   Cal. Cond:  36.3
Ca:   65.8          Mg:    26.8      Na:   178.6          K:    7.1        NH4:   1.4
SO4:   99.7        HCO3:     5.0      Cl:  148.1         NO3:    0.8          F:   4.4
Sum Cations:  284.3  Sum Anions:  258.0  Cations/Anions: 1.10   Tot. P:  19.1
Tot. Al:   48.3    Ext. Al:  19.1     Fe:   125.0        Mn:    42.0     SiO2:  0.56
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C2-048   Name: CRANBERRY POND                     State: NY  Date: 04NOV84
Sample Type: REGULAR            Latitude: 42-44'40"N    Longitude: 73-26'00"W
Elevation:  505   Surface Temp:  9.3  Stratified: MIXED      Site Depth:   4.0
Lake Area:        8 Watershed Area:     132 WA/LA:    16.5 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  0.9   Turbidity:   1.4      Color:   120
Closed pH: 5.41        Equil. pH: 5.70              ANC:    25.9         DOC: 10.33
Closed DIC:  1.00   Equil. DIC:  0.21    Meas. Cond:  23.2   Cal. Cond:  23.1
Ca:   94.4          Mg:    32.1       Na:   43.0         K:   8.3       NH4:   5.8
SO4:  104.1      HCO3:     9.8      Cl:    29.7       NO3:   1.5           F:   4.0
Sum Cations:  187.1  Sum Anions:  149.1  Cations/Anions: 1.25   Tot. P:   9.5
Tot. Al:  225.5    Ext. Al:  23.8    Fe:  299.0     Mn:    55.0    SiO2:  4.18

ID: 1C2-050   Name: MOORES POND                        State: MA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 42-39'20"N    Longitude: 72-20'50"W
Elevation:  205   Surface Temp: 11.6  Stratified: MIXED      Site Depth:   6.1
Lake Area:       12 Watershed Area:     622 WA/LA:    52.3 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  5.3   Turbidity:   0.3      Color:    10
Closed pH: 6.33        Equil. pH: 6.81              ANC:    52.2         DOC:  2.58
Closed DIC:  1.11   Equil. DIC:  0.60    Meas. Cond:  36.2   Cal. Cond:  37.3
Ca:   78.9          Mg:    33.3       Na:  173.0         K:   9.1       NH4:   1.2
SO4:  104.6      HCO3:    45.1      Cl:   140.6       NO3:   0.2           F:   2.7
Sum Cations:  295.8  Sum Anions:  293.3  Cations/Anions: 1.01   Tot. P:   3.8
Tot. Al:   22.1    Ext. Al:   3.6    Fe:   15.0     Mn:     7.0    SiO2:  1.95

ID: 1C2-051   Name: CHESHIRE POND                      State: NH  Date: 01NOV84
Sample Type: REGULAR            Latitude: 42-49'15"N    Longitude: 72-00'40"W
Elevation:  294   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   0.9
Lake Area:       14 Watershed Area:    8809 WA/LA:   616.0 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  0.9   Turbidity:   1.7      Color:    40
Closed pH: 6.35        Equil. pH: 7.01              ANC:    77.4         DOC:  5.22
Closed DIC:  1.56   Equil. DIC:  0.79    Meas. Cond:  72.8   Cal. Cond:  76.9
Ca:  136.3          Mg:    66.7       Na:  364.5         K:  30.2       NH4:   2.1
SO4:  148.3      HCO3:    67.6      Cl:   385.6       NO3:   0.2           F:   2.6
Sum Cations:  600.3  Sum Anions:  604.3  Cations/Anions: 0.99   Tot. P:  19.3
Tot. Al:  106.1    Ext. Al:   9.2    Fe:  233.0     Mn:    51.0    SiO2:  1.58

ID: 1C2-052   Name: SHERMAN RESERVOIR                  State: VT  Date: 07NOV84
Sample Type: REGULAR            Latitude: 42-44'30"N    Longitude: 72-55'35"W
Elevation:  336   Surface Temp: 20.4  Stratified: MIXED      Site Depth:   9.4
Lake Area:       76 Watershed Area:   61290 WA/LA:   808.6 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.9   Turbidity:   0.8      Color:    25
Closed pH: 6.61        Equil. pH: 7.13              ANC:    97.8         DOC:  3.13
Closed DIC:  1.52   Equil. DIC:  0.90    Meas. Cond:  34.0   Cal. Cond:  36.2
Ca:  124.1          Mg:    43.0       Na:   99.8         K:  18.1       NH4:   4.5
SO4:  105.9      HCO3:    85.2      Cl:    91.6       NO3:   6.8           F:   2.2
Sum Cations:  289.6  Sum Anions:  291.8  Cations/Anions: 0.99   Tot. P:   6.4
Tot. Al:  123.2    Ext. Al:   7.5    Fe:   65.0     Mn:    62.0    SiO2:  3.91

ID: 1C2-053   Name: KEZAR LAKE                         State: NH  Date: 24OCT84
Sample Type: REG/SPC/NRC/       Latitude: 43-21'45"N    Longitude: 71-57'00"W
Elevation:  276   Surface Temp: 12.7  Stratified: MIXED      Site Depth:   4.6
Lake Area:       69 Watershed Area:    2696 WA/LA:    39.1 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  3.2   Turbidity:   0.6      Color:    10
Closed pH: 6.90        Equil. pH: 7.28              ANC:   123.2         DOC:  3.06
Closed DIC:  1.60   Equil. DIC:  1.39    Meas. Cond: 108.6   Cal. Cond: 130.4
Ca:  201.1          Mg:    56.1       Na:  639.0         K:  18.8       NH4:   1.0
SO4:  328.2      HCO3:   115.2      Cl:   661.9       NO3:   0.0           F:   2.1
Sum Cations:  916.0  Sum Anions: 1107.6  Cations/Anions: 0.83   Tot. P:  14.1
Tot. Al:   52.0    Ext. Al:   6.1    Fe:   12.0     Mn:    20.0    SiO2:  1.28
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C2-054   Name: LAKE WAMPONOAG                      State: MA  Date: 08NOV84
Sample Type: REGULAR            Latitude: 42-37'02"N   Longitude: 71-57'45"W
Elevation:  329   Surface Temp:  7.7  Stratified: MIXED      Site Depth:   4.0
Lake Area:      89 Watershed Area:     751 WA/LA:      8.4 Hydro Type: DRAINAGE
Residence Time:  0.32  Secchi Depth:  4.0   Turbidity:   0.4      Color:   20
Closed pH: 5.06       Equil. pH: 5.09             ANC:   -5.8        DOC:  2.00
Closed DIC:  0.44   Equil. DIC:  0.17    Meas. Cond:  45.0   Cal. Cond:  46.9
Ca:   85.8          Mg:    33.7      Na:  182.3          K:  12.3      NH4:   0.0
SO4:  136.2       HCO3:     1.5      Cl:  205.4        NO3:   0.2        F:   2.6
Sum Cations:  323.2  Sum Anions:  345.9  Cations/Anions: 0.93  Tot. P:   9.0
Tot. Al:  134.0    Ext. Al:  97.0    Fe:    60.0      Mn:   70.0    SiO2:  0.28

ID: 1C2-055   Name: NORTH RIVER POND                    State: NH  Date: 30OCT84
Sample Type: REGULAR            Latitude: 43-11'45"N   Longitude: 71-07'45"W
Elevation:  137   Surface Temp: 12.8  Stratified: MIXED      Site Depth:   5.5
Lake Area:      34 Watershed Area:     337 WA/LA:     10.0 Hydro Type: DRAINAGE
Residence Time:  0.58  Secchi Depth:  3.8   Turbidity:   0.8      Color:   20
Closed pH: 6.85       Equil. pH: 7.32             ANC:  145.2        DOC:  3.38
Closed DIC:  2.07   Equil. DIC:  1.69    Meas. Cond:  59.0   Cal. Cond:  63.3
Ca:  104.8          Mg:    45.7      Na:  357.1          K:  16.5      NH4:   1.8
SO4:   65.5       HCO3:   122.6      Cl:  320.6        NO3:   0.8        F:   2.6
Sum Cations:  526.1  Sum Anions:  512.3  Cations/Anions: 1.03  Tot. P:  10.0
Tot. Al:   24.5    Ext. Al:   0.6    Fe:    85.0      Mn:   16.0    SiO2:  2.05

ID: 1C2-056   Name: DRURY POND                          State: ME  Date: 24OCT84
Sample Type: REGULAR            Latitude: 44-42'15"N   Longitude: 70-14'30"W
Elevation:  170   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   5.8
Lake Area:      13 Watershed Area:     844 WA/LA:     65.4 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  2.5   Turbidity:   1.4      Color:   20
Closed pH: 6.95       Equil. pH: 7.50             ANC:  220.1        DOC:  3.38
Closed DIC:  1.53   Equil. DIC:  2.41    Meas. Cond:  37.5   Cal. Cond:  37.9
Ca:  217.1          Mg:    44.4      Na:   65.4          K:  17.1      NH4:   0.3
SO4:   77.2       HCO3:   191.1      Cl:   42.9        NO3:   0.1        F:   1.4
Sum Cations:  344.4  Sum Anions:  313.0  Cations/Anions: 1.10  Tot. P:   6.8
Tot. Al:   46.7    Ext. Al:   4.2    Fe:    55.0      Mn:    2.0    SiO2:  2.29

ID: 1C2-057   Name: BABBIDGE RESERVOIR                  State: NH  Date: 01NOV84
Sample Type: REGULAR            Latitude: 42-56'05"N   Longitude: 72-13'00"W
Elevation:  292   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   7.0
Lake Area:      12 Watershed Area:    1300 WA/LA:    111.1 Hydro Type: RESERVOIR
Residence Time:  0.06  Secchi Depth:  3.3   Turbidity:   1.0      Color:   25
Closed pH: 5.82       Equil. pH: 6.54             ANC:   27.6        DOC:  2.36
Closed DIC:  1.25   Equil. DIC:  0.36    Meas. Cond:  19.6   Cal. Cond:  20.1
Ca:   44.0          Mg:    42.0      Na:   44.1          K:  16.8      NH4:   2.8
SO4:  102.7       HCO3:    22.5      Cl:   23.5        NO3:   0.3        F:   2.7
Sum Cations:  151.0  Sum Anions:  151.7  Cations/Anions: 1.00  Tot. P:   9.0
Tot. Al:  101.8    Ext. Al:   9.2    Fe:   105.0      Mn:   28.0    SiO2:  2.01

ID: 1C2-059   Name: NORTHWOOD LAKE                      State: NH  Date: 30OCT84
Sample Type: REGULAR            Latitude: 43-12'33"N   Longitude: 71-15'00"W
Elevation:  158   Surface Temp: 12.9  Stratified: MIXED      Site Depth:   4.6
Lake Area:     256 Watershed Area:    5432 WA/LA:     21.2 Hydro Type: DRAINAGE
Residence Time:  0.25  Secchi Depth:  4.2   Turbidity:   0.9      Color:   20
Closed pH: 6.42       Equil. pH: 6.85             ANC:   53.0        DOC:  3.48
Closed DIC:  0.92   Equil. DIC:  0.64    Meas. Cond:  53.8   Cal. Cond:  55.7
Ca:   92.4          Mg:    52.0      Na:  278.6          K:  17.4      NH4:   1.8
SO4:  116.1       HCO3:    39.9      Cl:  271.2        NO3:   0.5        F:   2.2
Sum Cations:  442.6  Sum Anions:  429.9  Cations/Anions: 1.03  Tot. P:  11.0
Tot. Al:   36.4    Ext. Al:   1.8    Fe:   105.0      Mn:   16.0    SiO2:  0.99
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C2-060   Name: WEST POND                         State: ME  Date: 29OCT84
Sample Type: REGULAR            Latitude: 43-45'15"N    Longitude: 70-52'30"W
Elevation:  169   Surface Temp: 12.7  Stratified: MIXED     Site Depth:   7.0
Lake Area:      70 Watershed Area:     285 WA/LA:      4.1 Hydro Type: CLOSED
Residence Time:     *   Secchi Depth:  5.3  Turbidity:   0.4      Color:   10
Closed pH: 6.88       Equil. pH: 7.33              ANC:  139.2         DOC:  2.56
Closed DIC:  1.85   Equil. DIC:  1.62    Meas. Cond:  34.8   Cal. Cond:  35.8
Ca:  135.8           Mg:   49.7         Na:  103.2        K:  12.5       NH4:  2.4
SO4:   83.3      HCO3:  120.5       Cl:    83.8       NO3:   1.3           F:  4.1
Sum Cations:  303.6  Sum Anions:  293.1  Cations/Anions: 1.04   Tot. P:   7.1
Tot. Al:  226.1    Ext. Al:    1.4    Fe:     0.0     Mn:     7.0    SiO2:  0.94

ID: 1C2-061   Name: GREAT HILL POND                   State: NH  Date: 25OCT84
Sample Type: REGULAR            Latitude: 43-53'20"N    Longitude: 71-20'00"W
Elevation:  286   Surface Temp: 11.9  Stratified: MIXED     Site Depth:   2.7
Lake Area:      26 Watershed Area:     383 WA/LA:     14.5 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  2.7  Turbidity:   0.6      Color:   35
Closed pH: 6.15       Equil. pH: 6.69              ANC:   95.4         DOC:  6.58
Closed DIC:  0.80   Equil. DIC:  0.45    Meas. Cond:  16.6   Cal. Cond:  16.5
Ca:   67.7           Mg:   22.3         Na:   57.4        K:   5.2       NH4:  1.3
SO4:   59.1      HCO3:   26.0       Cl:    14.2       NO3:   0.2           F: 12.8
Sum Cations:  154.5  Sum Anions:  112.4  Cations/Anions: 1.37   Tot. P:   4.9
Tot. Al:   99.4    Ext. Al:   22.0    Fe:    33.0     Mn:     3.0    SiO2:  0.51

ID: 1C2-062   Name: PEMIGEWASSET LAKE                 State: NH  Date: 24OCT84
Sample Type: REGULAR            Latitude: 43-36'55"N    Longitude: 71-35'45"W
Elevation:  170   Surface Temp: 13.2  Stratified: MIXED     Site Depth:   5.7
Lake Area:     103 Watershed Area:    1269 WA/LA:     12.3 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  4.0  Turbidity:   0.5      Color:   15
Closed pH: 6.45       Equil. pH: 6.77              ANC:   51.6         DOC:  3.16
Closed DIC:  0.60   Equil. DIC:  0.52    Meas. Cond:  36.6   Cal. Cond:  38.3
Ca:   89.9           Mg:   34.7         Na:  166.5        K:   8.2       NH4:  1.1
SO4:  101.9      HCO3:   47.8       Cl:   151.8       NO3:   0.1           F:  2.4
Sum Cations:  300.6  Sum Anions:  304.0  Cations/Anions: 0.99   Tot. P:   4.5
Tot. Al:   24.7    Ext. Al:    6.8    Fe:    14.0     Mn:     5.0    SiO2:  0.65

ID: 1C2-063   Name: BOG POND                          State: NH  Date: 24OCT84
Sample Type: REGULAR            Latitude: 43-26'20"N    Longitude: 71-52'15"W
Elevation:  196   Surface Temp: 11.6  Stratified: MIXED     Site Depth:   3.9
Lake Area:       8 Watershed Area:    8513 WA/LA:   1013.4 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  1.0  Turbidity:  17.4      Color:   75
Closed pH: 7.05       Equil. pH: 7.96              ANC:  532.4         DOC:  4.30
Closed DIC:  7.43   Equil. DIC:  5.89    Meas. Cond: 100.4   Cal. Cond:  92.9
Ca:  411.2           Mg:  120.1         Na:  315.8        K:  33.6       NH4:  4.9
SO4:  103.1      HCO3:  466.0       Cl:   183.0       NO3:   3.5           F:  2.7
Sum Cations:  885.7  Sum Anions:  759.1  Cations/Anions: 1.17   Tot. P:   3.5
Tot. Al:   46.1    Ext. Al:    7.6    Fe:   428.0     Mn:   240.0    SiO2:  6.45

ID: 1C2-064   Name: HANCOCK POND                      State: ME  Date: 18OCT84
Sample Type: REGULAR            Latitude: 44-57'20"N    Longitude: 69-59'10"W
Elevation:  163   Surface Temp: 12.1  Stratified: STRONG    Site Depth:  29.4
Lake Area:     129 Watershed Area:    1147 WA/LA:      8.9 Hydro Type: DRAINAGE
Residence Time:  2.73  Secchi Depth:  5.3  Turbidity:   0.3      Color:   15
Closed pH: 6.88       Equil. pH: 7.28              ANC:   93.0         DOC:  3.26
Closed DIC:  1.06   Equil. DIC:  1.07    Meas. Cond:  21.5   Cal. Cond:  22.3
Ca:  110.0           Mg:   35.7         Na:   46.2        K:   6.5       NH4:  1.1
SO4:   76.1      HCO3:   78.5       Cl:    15.7       NO3:   0.1           F:  3.2
Sum Cations:  199.6  Sum Anions:  173.6  Cations/Anions: 1.15   Tot. P:   6.8
Tot. Al:   51.4    Ext. Al:    9.9    Fe:     1.0     Mn:     2.0    SiO2:  2.60
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C2-065   Name: DAN CHARLES POND                   State: ME  Date: 25OCT84
Sample Type: REGULAR             Latitude: 44-10'53"N   Longitude: 70-49'35"W
Elevation:  143  Surface Temp: 10.6  Stratified: MIXED     Site Depth:   0.9
Lake Area:     11 Watershed Area:    137 WA/LA:   12.0 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  0.9  Turbidity:   1.0     Color:   55
Closed pH: 6.29      Equil. pH: 7.13              ANC:   94.0        DOC:  6.30
Closed DIC:  1.96  Equil. DIC:  0.91   Meas. Cond:  21.1   Cal. Cond:  21.4
Ca:  109.4          Mg:    30.8        Na:   46.3         K:  11.1      NH4:  2.1
SO4:   67.1       HCO3:    72.3      Cl:    16.1       NO3:   0.0         F:  1.6
Sum Cations:  199.9  Sum Anions:   157.1  Cations/Anions: 1.27   Tot. P:  18.6
Tot. Al:  114.1    Ext. Al:  20.1    Fe:    73.0      Mn:    10.0    SiO2:  2.98

ID: 1C2-066   Name: TURTLE POND                        State: NH  Date: 30OCT84
Sample Type: REGULAR             Latitude: 43-15'15"N   Longitude: 71-31'00"W
Elevation:   95  Surface Temp: 12.1  Stratified: MIXED     Site Depth:   4.6
Lake Area:     54 Watershed Area:    510 WA/LA:    9.5 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  2.4  Turbidity:   0.5     Color:   55
Closed pH: 6.35      Equil. pH: 6.97              ANC:   84.2        DOC:  7.34
Closed DIC:  1.45  Equil. DIC:  0.75   Meas. Cond:  42.3   Cal. Cond:  43.7
Ca:  113.6          Mg:    58.9        Na:  182.2         K:  15.0      NH4:  1.1
SO4:   98.7       HCO3:    71.3      Cl:   158.3       NO3:   0.2         F:  4.0
Sum Cations:  371.1  Sum Anions:   332.6  Cations/Anions: 1.12   Tot. P:   9.4
Tot. Al:   77.2    Ext. Al:  13.8    Fe:    73.0      Mn:    10.0    SiO2:  1.44

ID: 1C2-067   Name: DUBES POND                         State: NH  Date: 30OCT84
Sample Type: REGULAR             Latitude: 43-04'13"N   Longitude: 71-24'07"W
Elevation:  128  Surface Temp: 12.9  Stratified: MIXED     Site Depth:   0.9
Lake Area:     38 Watershed Area:   1440 WA/LA:   38.4 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  0.9  Turbidity:   1.8     Color:  150
Closed pH: 5.08      Equil. pH: 5.21              ANC:    7.7        DOC:  9.28
Closed DIC:  0.98  Equil. DIC:  0.13   Meas. Cond:  30.7   Cal. Cond:  31.2
Ca:   78.3          Mg:    33.4        Na:   97.4         K:  10.5      NH4:  2.6
SO4:  117.3       HCO3:     3.6      Cl:    83.0       NO3:   1.3         F:  6.1
Sum Cations:  229.6  Sum Anions:   211.3  Cations/Anions: 1.09   Tot. P:   8.5
Tot. Al:  203.4    Ext. Al:  42.2    Fe:   315.0      Mn:    67.0    SiO2:  0.34

ID: 1C2-068   Name: QUIMBY POND                        State: ME  Date: 18OCT84
Sample Type: REGULAR             Latitude: 44-59'27"N   Longitude: 70-44'31"W
Elevation:  513  Surface Temp: 11.0  Stratified: MIXED     Site Depth:   2.7
Lake Area:     68 Watershed Area:    181 WA/LA:    2.7 Hydro Type: DRAINAGE
Residence Time:  0.59  Secchi Depth:  1.2  Turbidity:   1.3     Color:   15
Closed pH: 7.62      Equil. pH: 7.72              ANC:  289.0        DOC:  5.87
Closed DIC:  3.31  Equil. DIC:  3.18   Meas. Cond:  51.6   Cal. Cond:  54.1
Ca:  345.1          Mg:    64.7        Na:   56.4         K:   8.9      NH4:  1.2
SO4:  157.1       HCO3:   262.8      Cl:    28.1       NO3:   0.6         F:  1.7
Sum Cations:  476.3  Sum Anions:   451.0  Cations/Anions: 1.06   Tot. P:  12.0
Tot. Al:   50.9    Ext. Al:  15.4    Fe:    38.0      Mn:    14.0    SiO2:  1.47

ID: 1C2-069   Name: LITTLE POND                        State: ME  Date: 25OCT84
Sample Type: REGULAR             Latitude: 43-57'40"N   Longitude: 70-48'52"W
Elevation:  111  Surface Temp: 12.3  Stratified: MIXED     Site Depth:   3.9
Lake Area:     13 Watershed Area:   7335 WA/LA:  551.5 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  3.9  Turbidity:   0.4     Color:   20
Closed pH: 6.49      Equil. pH: 6.80              ANC:   99.4        DOC:  3.33
Closed DIC:  1.79  Equil. DIC:  1.38   Meas. Cond:  29.2   Cal. Cond:  30.3
Ca:  105.7          Mg:    34.3        Na:  111.7         K:   8.4      NH4:  2.0
SO4:   67.8       HCO3:    79.3      Cl:    86.7       NO3:   0.1         F:  3.3
Sum Cations:  262.4  Sum Anions:   237.2  Cations/Anions: 1.11   Tot. P:   3.8
Tot. Al:   26.7    Ext. Al:   6.8    Fe:    61.0      Mn:    16.0    SiO2:  1.30
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C2-070   Name: LEVI POND                              State: VT  Date: 25OCT84
Sample Type: REG/SPC/LTM/        Latitude: 44-16'00"N   Longitude: 72-13'40"W
Elevation:  497   Surface Temp: 10.7  Stratified: MIXED      Site Depth:   6.1
Lake Area:       9 Watershed Area:       78 WA/LA:      8.5 Hydro Type: DRAINAGE
Residence Time:  0.66  Secchi Depth:  3.9   Turbidity:   0.4      Color:   25
Closed pH: 5.32         Equil. pH: 5.31              ANC:   31.0          DOC:  5.40
Closed DIC:  0.63   Equil. DIC:  0.20    Meas. Cond:  18.9   Cal. Cond:  18.3
Ca:   69.4          Mg:   22.4        Na:    28.7          K:   5.2       NH4:   1.1
SO4:  107.6       HCO3:    4.1        Cl:     7.3        NO3:   0.2         F:   1.8
Sum Cations:  131.3  Sum Anions:  121.1  Cations/Anions: 1.08  Tot. P:    3.6
Tot. Al:  163.4    Ext. Al:  39.3    Fe:    89.0       Mn:   37.0    SiO2:  0.82

ID: 1C3-003   Name: RODERIQUE POND                         State: ME  Date: 17OCT84
Sample Type: REGULAR             Latitude: 45-39'15"N   Longitude: 69-55'40"W
Elevation:  334   Surface Temp: 10.0  Stratified: MIXED      Site Depth:   4.6
Lake Area:      14 Watershed Area:      115 WA/LA:      8.2 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  3.1   Turbidity:   0.4      Color:   45
Closed pH: 6.21         Equil. pH: 6.83              ANC:   61.1          DOC:  7.52
Closed DIC:  1.19   Equil. DIC:  0.55    Meas. Cond:  20.8   Cal. Cond:  21.1
Ca:   78.2          Mg:   55.9        Na:    31.7          K:  21.0       NH4:   7.2
SO4:   83.2       HCO3:   45.1        Cl:    12.4        NO3:   0.1         F:   1.5
Sum Cations:  194.4  Sum Anions:  142.3  Cations/Anions: 1.37  Tot. P:    0.2
Tot. Al:  116.4    Ext. Al:  27.6    Fe:    80.0       Mn:   25.0    SiO2:  0.90

ID: 1C3-004   Name: SUGAR BERTH POND                       State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-38'30"N   Longitude: 70-21'00"W
Elevation:  403   Surface Temp:  9.5  Stratified: MIXED      Site Depth:   2.4
Lake Area:      10 Watershed Area:      135 WA/LA:     13.2 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  2.4   Turbidity:   0.4      Color:   23
Closed pH: 7.96         Equil. pH: 8.24              ANC: 1000.5          DOC:  7.16
Closed DIC: 11.27   Equil. DIC: 10.70    Meas. Cond: 112.8   Cal. Cond: 118.5
Ca:  880.7          Mg:  230.3        Na:    33.3          K:   6.0       NH4:   2.3
SO4:  126.0       HCO3:  903.0        Cl:     8.7        NO3:   1.7         F:   1.2
Sum Cations: 1152.6  Sum Anions: 1048.5  Cations/Anions: 1.10  Tot. P:    0.0
Tot. Al:  194.9    Ext. Al:  27.5    Fe:     8.0       Mn:    0.0    SiO2:  2.17

ID: 1C3-005   Name: LITTLE FISH POND                       State: ME  Date: 18OCT34
Sample Type: REGULAR             Latitude: 45-32'48"N   Longitude: 70-28'37"W
Elevation:  409   Surface Temp:  9.5  Stratified: MIXED      Site Depth:   1.2
Lake Area:       6 Watershed Area:      132 WA/LA:     21.6 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.2   Turbidity:   0.3      Color:   60
Closed pH: 7.10         Equil. pH: 7.77              ANC:  397.1          DOC:  8.78
Closed DIC:  4.70   Equil. DIC:  3.73    Meas. Cond:  52.5   Cal. Cond:  54.4
Ca:  329.4          Mg:  122.6        Na:    70.8          K:   8.3       NH4:   2.7
SO4:  111.7       HCO3:  311.9        Cl:     9.6        NO3:   2.8         F:   2.6
Sum Cations:  533.8  Sum Anions:  439.0  Cations/Anions: 1.22  Tot. P:    3.0
Tot. Al:   74.0    Ext. Al:  17.3    Fe:    43.0       Mn:   12.0    SiO2:  5.35

ID: 1C3-006   Name: MUD POND                               State: ME  Date: 18OCT84
Sample Type: REGULAR             Latitude: 45-31'20"N   Longitude: 70-40'49"W
Elevation:  546   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   0.9
Lake Area:       6 Watershed Area:       88 WA/LA:     14.9 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  0.9   Turbidity:   1.0      Color:   30
Closed pH: 7.28         Equil. pH: 7.71              ANC:  316.3          DOC:  6.44
Closed DIC:  3.76   Equil. DIC:  3.32    Meas. Cond:  43.8   Cal. Cond:  46.4
Ca:  270.7          Mg:  118.9        Na:    49.8          K:   7.7       NH4:   1.3
SO4:   93.4       HCO3:  287.6        Cl:     5.0        NO3:   0.6         F:   1.4
Sum Cations:  448.4  Sum Anions:  388.9  Cations/Anions: 1.15  Tot. P:   10.8
Tot. Al:   86.0    Ext. Al:  15.1    Fe:    69.0       Mn:    9.0    SiO2:  1.65
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C3-007   Name: HORSESHOE POND                    State: ME  Date: 19OCT84
Sample Type: REGULAR            Latitude: 45-27'30"N   Longitude: 69-56'00"W
Elevation:  326   Surface Temp:  9.8  Stratified: MIXED     Site Depth:   7.0
Lake Area:      13 Watershed Area:     461 WA/LA:    35.5 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  2.9   Turbidity:   0.8     Color:   35
Closed pH: 7.27        Equil. pH: 7.67              ANC:  263.4        DOC:  7.55
Closed DIC:  2.92   Equil. DIC:  2.73    Meas. Cond:  37.6   Cal. Cond:  40.2
Ca:  251.7          Mg:   98.1       Na:   42.0          K:   7.4      NH4:  2.0
SO4:   74.5       HCO3:  230.6       Cl:   11.0        NO3:   0.0        F:  1.6
Sum Cations:  401.4  Sum Anions:  318.3  Cations/Anions: 1.26   Tot. P:   6.6
Tot. Al:   51.0    Ext. Al:  10.9    Fe:    42.0      Mn:     7.0    SiO2:  1.76

ID: 1C3-009   Name: DERBY POND                        State: VT  Date: 18OCT84
Sample Type: REGULAR            Latitude: 44-57'00"N   Longitude: 72-07'00"W
Elevation:  299   Surface Temp: 12.0  Stratified: MIXED     Site Depth:   2.4
Lake Area:      76 Watershed Area:     435 WA/LA:     5.8 Hydro Type: DRAINAGE
Residence Time:  0.24  Secchi Depth:  2.4   Turbidity:   0.8     Color:    5
Closed pH: 8.47        Equil. pH: 8.56              ANC: 2320.4        DOC:  2.96
Closed DIC: 25.62   Equil. DIC: 26.37    Meas. Cond: 318.6   Cal. Cond: 344.0
Ca: 2035.9          Mg:  540.4       Na:  502.9          K:  64.0      NH4:  4.7
SO4:  268.7       HCO3: 2235.6       Cl:  514.7        NO3:   9.2        F:  8.7
Sum Cations: 3147.9  Sum Anions: 3075.8  Cations/Anions: 1.02   Tot. P:   6.5
Tot. Al:   74.3    Ext. Al:  16.8    Fe:     4.0      Mn:     4.0    SiO2:  0.26

ID: 1C3-011   Name: ST ALBANS RES (SO. PART)          State: VT  Date: 29OCT84
Sample Type: REGULAR            Latitude: 44-45'30"N   Longitude: 73-03'50"W
Elevation:  219   Surface Temp: 12.7  Stratified: MIXED     Site Depth:   2.4
Lake Area:      11 Watershed Area:     557 WA/LA:    52.1 Hydro Type: RESERVOIR
Residence Time:  0.04  Secchi Depth:  2.7   Turbidity:   1.7     Color:   20
Closed pH: 7.80        Equil. pH: 8.12              ANC:  844.8        DOC:  4.33
Closed DIC:  9.51   Equil. DIC:  9.47    Meas. Cond: 112.2   Cal. Cond: 118.3
Ca:  722.6          Mg:  207.3       Na:  141.5          K:  23.5      NH4:  1.1
SO4:  170.7       HCO3:  739.4       Cl:  110.4        NO3:   0.3        F:  2.5
Sum Cations: 1095.9  Sum Anions: 1027.0  Cations/Anions: 1.07   Tot. P:  14.5
Tot. Al:   75.9    Ext. Al:   3.1    Fe:    42.0      Mn:     0.0    SiO2:  0.22

ID: 1C3-012   Name: GILLETT POND                      State: VT  Date: 29OCT84
Sample Type: REGULAR            Latitude: 44-21'15"N   Longitude: 72-57'45"W
Elevation:  217   Surface Temp: 13.4  Stratified: MIXED     Site Depth:   1.0
Lake Area:      12 Watershed Area:     578 WA/LA:    46.6 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.1   Turbidity:   2.1     Color:   30
Closed pH: 7.55        Equil. pH: 7.99              ANC:  563.5        DOC:  3.77
Closed DIC:  6.58   Equil. DIC:  6.30    Meas. Cond:  69.8   Cal. Cond:  72.4
Ca:  469.6          Mg:  139.8       Na:   48.0          K:  10.5      NH4:  1.3
SO4:  102.6       HCO3:  509.3       Cl:   34.8        NO3:   0.2        F:  2.0
Sum Cations:  669.2  Sum Anions:  651.0  Cations/Anions: 1.03   Tot. P:   8.3
Tot. Al:   24.9    Ext. Al:   3.4    Fe:   111.0      Mn:    16.0    SiO2:  1.27

ID: 1C3-013   Name: SUNRISE LAKE                      State: VT  Date: 03NOV84
Sample Type: REGULAR            Latitude: 43-45'38"N   Longitude: 73-15'35"W
Elevation:  151   Surface Temp:  9.2  Stratified: MIXED     Site Depth:  12.5
Lake Area:      22 Watershed Area:     238 WA/LA:    10.7 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  5.8   Turbidity:   0.4     Color:   15
Closed pH: 7.43        Equil. pH: 7.99              ANC:  609.9        DOC:  2.40
Closed DIC:  7.05   Equil. DIC:  6.56    Meas. Cond:  87.2   Cal. Cond:  90.4
Ca:  572.9          Mg:  205.6       Na:   47.9          K:   9.6      NH4:  0.9
SO4:  217.9       HCO3:  488.5       Cl:   37.7        NO3:   0.1        F:  1.5
Sum Cations:  836.9  Sum Anions:  747.2  Cations/Anions: 1.12   Tot. P:   5.3
Tot. Al:   16.5    Ext. Al:   2.3    Fe:    22.0      Mn:    44.0    SiO2:  1.52
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C3-014   Name: BREESE POND                        State: VT  Date: 03NOV84
Sample Type: REGULAR              Latitude: 43-42'50"N    Longitude: 73-13'00"W
Elevation:  168   Surface Temp:  9.3  Stratified: MIXED      Site Depth:   2.1
Lake Area:       6 Watershed Area:     124 WA/LA:    22.5 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  2.1   Turbidity:   0.6      Color:   30
Closed pH: 7.76        Equil. pH: 8.32              ANC: 1320.2        DOC:  6.30
Closed DIC: 14.52   Equil. DIC: 13.40    Meas. Cond: 151.0   Cal. Cond: 162.2
Ca: 1129.2           Mg:  281.3        Na:  118.6          K:  18.9       NH4:   1.6
SO4:  169.2        HCO3: 1173.1       Cl:   83.8        NO3:   0.0          F:   2.4
Sum Cations: 1549.6  Sum Anions: 1434.4  Cations/Anions: 1.08   Tot. P:   8.8
Tot. Al:    19.5    Ext. Al:    1.5    Fe:     9.0      Mn:     5.0    SiO2:  2.49

ID: 1C3-017   Name: CARTER POND                        State: NY  Date: 03NOV84
Sample Type: REGULAR              Latitude: 43-09'50"N    Longitude: 73-25'15"W
Elevation:  134   Surface Temp: 10.1  Stratified: MIXED      Site Depth:   5.2
Lake Area:       7 Watershed Area:    4033 WA/LA:   601.9 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.3   Turbidity:   1.6      Color:   50
Closed pH: 7.27        Equil. pH: 8.42              ANC: 2010.4        DOC:  6.62
Closed DIC: 24.50   Equil. DIC: 20.28    Meas. Cond: 229.1   Cal. Cond: 236.0
Ca: 1531.9           Mg:  546.2        Na:  200.7          K:  64.3       NH4:   1.2
SO4:  116.4        HCO3: 1642.1       Cl:  238.8        NO3:   0.2          F:   2.7
Sum Cations: 2344.4  Sum Anions: 2004.0  Cations/Anions: 1.17   Tot. P:  67.5
Tot. Al:    39.9    Ext. Al:    1.8    Fe:    82.0      Mn:   183.0    SiO2:  5.56

ID: 1C3-018   Name: NO NAME(NO NAME LAKE)              State: NY  Date: 04NOV84
Sample Type: REGULAR              Latitude: 42-46'10"N    Longitude: 73-32'50"W
Elevation:  153   Surface Temp:  8.6  Stratified: MIXED      Site Depth:   0.6
Lake Area:       7 Watershed Area:     186 WA/LA:    27.8 Hydro Type: CLOSED
Residence Time:     *   Secchi Depth:  0.4   Turbidity:   9.9      Color:  100
Closed pH: 7.86        Equil. pH: 8.07              ANC:  679.3        DOC:  9.78
Closed DIC:  8.11   Equil. DIC:  7.41    Meas. Cond: 127.4   Cal. Cond: 135.3
Ca:  538.9           Mg:  269.0        Na:  308.4          K:  57.1       NH4:   1.6
SO4:  236.9        HCO3:  605.1       Cl:  302.5        NO3:   0.3          F:   3.3
Sum Cations: 1175.1  Sum Anions: 1149.2  Cations/Anions: 1.02   Tot. P:  40.0
Tot. Al:   138.9    Ext. Al:    3.0    Fe:    58.0      Mn:    37.0    SiO2:  5.13

ID: 1C3-020   Name: BERKSHIRE POND                     State: MA  Date: 07NOV84
Sample Type: REGULAR              Latitude: 42-30'15"N    Longitude: 73-11'50"W
Elevation:  301   Surface Temp:  5.9  Stratified: MIXED      Site Depth:   1.0
Lake Area:       7 Watershed Area:     523 WA/LA:    71.6 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.0   Turbidity:   1.8      Color:   20
Closed pH: 8.03        Equil. pH: 8.60              ANC: 3229.2        DOC:  1.96
Closed DIC: 35.90   Equil. DIC: 34.06    Meas. Cond: 370.6   Cal. Cond: 421.3
Ca: 2020.7           Mg: 1370.7        Na:  496.8          K:  42.1       NH4:   1.2
SO4:  191.8        HCO3: 3084.8       Cl:  573.0        NO3:   0.3          F:   1.5
Sum Cations: 3931.5  Sum Anions: 3908.8  Cations/Anions: 1.01   Tot. P:   6.9
Tot. Al:    99.7    Ext. Al:    3.7    Fe:    62.0      Mn:    15.0    SiO2:  2.97

ID: 1C3-021   Name: MUD POND                           State: VT  Date: 29OCT84
Sample Type: REGULAR              Latitude: 44-23'40"N    Longitude: 72-23'15"W
Elevation:  425   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   0.9
Lake Area:       8 Watershed Area:      85 WA/LA:    10.8 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  1.0   Turbidity:   0.7      Color:   45
Closed pH: 7.77        Equil. pH: 8.10              ANC:  746.2        DOC: 10.80
Closed DIC:  7.90   Equil. DIC:  8.01    Meas. Cond:  82.6   Cal. Cond:  85.0
Ca:  701.1           Mg:   91.7        Na:   26.2          K:   7.5       NH4:   3.0
SO4:   87.4        HCO3:  632.6       Cl:   10.9        NO3:   1.4          F:   1.4
Sum Cations:  829.5  Sum Anions:  737.3  Cations/Anions: 1.13   Tot. P:   0.0
Tot. Al:    72.5    Ext. Al:   12.2    Fe:    12.0      Mn:    11.0    SiO2:  0.31
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C3-022   Name: BERLIN POND                          State: VT  Date: 25OCT84
Sample Type: REGULAR             Latitude: 44-11'15"N    Longitude: 72-35'15"W
Elevation:  297   Surface Temp: 12.4  Stratified: WEAK       Site Depth:  15.8
Lake Area:     118 Watershed Area:   2647 WA/LA:     22.4 Hydro Type: DRAINAGE
Residence Time:  0.59  Secchi Depth: 11.4   Turbidity:   0.2      Color:    5
Closed pH: 8.30        Equil. pH: 8.45              ANC: 1631.7        DOC:  1.97
Closed DIC: 18.73   Equil. DIC: 17.78    Meas. Cond: 241.6   Cal. Cond: 252.7
Ca: 1638.7          Mg:  248.4       Na:  340.2          K:   8.1       NH4:  0.9
SO4:  331.5       HCO3: 1478.1      Cl:  389.5        NO3:   0.0          F:  1.3
Sum Cations: 2236.3  Sum Anions: 2233.5  Cations/Anions: 1.00   Tot. P:   3.8
Tot. Al:     7.5    Ext. Al:    5.6    Fe:     0.0      Mn:     0.0    SiO2:  2.95

ID: 1C3-023   Name: LIME POND                            State: NH  Date: 18OCT84
Sample Type: REGULAR             Latitude: 44-52'15"N    Longitude: 71-29'20"W
Elevation:  431   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   2.4
Lake Area:       6 Watershed Area:    101 WA/LA:     18.4 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  1.3   Turbidity:   0.8      Color:   20
Closed pH: 8.33        Equil. pH: 8.52              ANC: 1788.0        DOC:  5.53
Closed DIC: 20.98   Equil. DIC: 18.29    Meas. Cond: 196.5   Cal. Cond: 222.0
Ca: 1666.7          Mg:  267.3       Na:   56.8          K:  58.0       NH4:  1.2
SO4:  217.8       HCO3: 1785.0      Cl:   40.1        NO3:   0.2          F:  2.1
Sum Cations: 2050.0  Sum Anions: 2066.2  Cations/Anions: 0.99   Tot. P:  14.0
Tot. Al:    25.3    Ext. Al:    8.1    Fe:    27.0      Mn:    26.0    SiO2:  6.97

ID: 1C3-024   Name: NEAL POND                            State: VT  Date: 25OCT84
Sample Type: REGULAR             Latitude: 44-29'30"N    Longitude: 71-41'30"W
Elevation:  366   Surface Temp: 10.9  Stratified: MIXED      Site Depth:   7.6
Lake Area:      76 Watershed Area:   2264 WA/LA:     29.9 Hydro Type: DRAINAGE
Residence Time:  0.18  Secchi Depth:  1.9   Turbidity:   1.7      Color:   60
Closed pH: 6.84        Equil. pH: 7.48              ANC:  197.2        DOC:  8.27
Closed DIC:  2.62   Equil. DIC:  1.93    Meas. Cond:  35.0   Cal. Cond:  37.0
Ca:  212.8          Mg:   68.2       Na:   53.8          K:  20.3       NH4:  1.1
SO4:   95.4       HCO3:  163.7      Cl:   17.2        NO3:   0.7          F:  2.0
Sum Cations:  356.3  Sum Anions:  279.2  Cations/Anions: 1.28   Tot. P:  10.4
Tot. Al:   134.0    Ext. Al:   14.1    Fe:    92.0      Mn:     2.0    SiO2:  4.76

ID: 1C3-025   Name: BURNS POND                           State: NH  Date: 25OCT84
Sample Type: REGULAR             Latitude: 44-21'00"N    Longitude: 71-38'30"W
Elevation:  310   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   6.4
Lake Area:      41 Watershed Area:   1287 WA/LA:     31.2 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  2.7   Turbidity:   0.5      Color:   45
Closed pH: 6.59        Equil. pH: 7.27              ANC:  124.8        DOC:  7.30
Closed DIC:  1.95   Equil. DIC:  1.27    Meas. Cond:  56.0   Cal. Cond:  60.6
Ca:  164.3          Mg:   79.7       Na:  235.4          K:  24.2       NH4:  1.1
SO4:  103.9       HCO3:  109.0      Cl:  256.7        NO3:   0.5          F:  2.4
Sum Cations:  504.9  Sum Anions:  472.6  Cations/Anions: 1.07   Tot. P:   7.8
Tot. Al:    57.1    Ext. Al:   10.1    Fe:    41.0      Mn:     0.0    SiO2:  2.90

ID: 1C3-027   Name: MOSES POND                           State: NH  Date: 23OCT84
Sample Type: REGULAR             Latitude: 43-32'25"N    Longitude: 72-18'50"W
Elevation:  244   Surface Temp: 13.3  Stratified: MIXED      Site Depth:   1.8
Lake Area:      11 Watershed Area:     91 WA/LA:      8.4 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  1.8   Turbidity:   0.4      Color:   25
Closed pH: 7.58        Equil. pH: 8.02              ANC:  538.7        DOC:  6.09
Closed DIC:  6.23   Equil. DIC:  5.81    Meas. Cond:  74.1   Cal. Cond:  77.6
Ca:  545.9          Mg:   78.8       Na:   61.8          K:  16.4       NH4:  1.9
SO4:  145.6       HCO3:  497.5      Cl:   32.4        NO3:   0.4          F:  1.5
Sum Cations:  704.9  Sum Anions:  679.4  Cations/Anions: 1.04   Tot. P:  10.9
Tot. Al:    77.3    Ext. Al:   16.4    Fe:    35.0      Mn:     8.0    SiO2:  5.07
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C3-028   Name: HALL POND                            State: NH  Date: 01NOV84
Sample Type: REGULAR            Latitude: 43-15'00"N    Longitude: 72-21'30"W
Elevation:  308   Surface Temp:  9.8  Stratified: MIXED      Site Depth:   1.5
Lake Area:       4 Watershed Area:     233 WA/LA:     52.9 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.5   Turbidity:   0.6      Color:   25
Closed pH: 6.58        Equil. pH: 7.07                ANC:   88.6        DOC:  5.20
Closed DIC:  1.30  Equil. DIC:  0.88    Meas. Cond:  30.1   Cal. Cond:  30.6
Ca:  107.6          Mg:    68.5       Na:    75.3         K:    5.0      NH4:   1.1
SO4:  129.1       HCO3:    73.2       Cl:    32.7       NO3:    0.3        F:   2.6
Sum Cations:  257.8  Sum Anions:  238.0  Cations/Anions: 1.08   Tot. P:  16.1
Tot. Al:   43.3    Ext. Al:    5.7    Fe:    40.5       Mn:     8.5    SiO2:  0.15

ID: 1C3-030   Name: PELHAM LAKE                          State: MA  Date: 07NOV84
Sample Type: REGULAR            Latitude: 42-42'00"N    Longitude: 72-53'30"W
Elevation:  429   Surface Temp:  7.6  Stratified: MIXED      Site Depth:   2.4
Lake Area:      32 Watershed Area:    1098 WA/LA:     34.2 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.9   Turbidity:   1.6      Color:   20
Closed pH: 6.81        Equil. pH: 7.14                ANC:   94.3        DOC:  3.70
Closed DIC:  1.23  Equil. DIC:  0.90    Meas. Cond:  33.9   Cal. Cond:  34.2
Ca:  104.6          Mg:    56.7       Na:    90.6         K:   21.1      NH4:   1.2
SO4:  115.7       HCO3:    80.1       Cl:    75.1       NO3:    0.1        F:   3.2
Sum Cations:  274.3  Sum Anions:  274.1  Cations/Anions: 1.00   Tot. P:  14.9
Tot. Al:  129.2    Ext. Al:    2.6    Fe:    99.0       Mn:    17.0    SiO2:  0.80

ID: 1C3-031   Name: SADAWGA LAKE                         State: VT  Date: 06NOV84
Sample Type: REGULAR            Latitude: 42-47'00"N    Longitude: 72-52'30"W
Elevation:  512   Surface Temp:  8.5  Stratified: MIXED      Site Depth:   2.1
Lake Area:      78 Watershed Area:     461 WA/LA:      5.9 Hydro Type: RESERVOIR
Residence Time:  0.24  Secchi Depth:  2.2   Turbidity:   0.8      Color:   25
Closed pH: 6.86        Equil. pH: 7.32                ANC:  132.1        DOC:  4.19
Closed DIC:  1.79  Equil. DIC:  1.42    Meas. Cond:  39.7   Cal. Cond:  40.4
Ca:  138.7          Mg:    44.3       Na:   132.5         K:   17.3      NH4:   1.6
SO4:   84.4       HCO3:   116.2       Cl:   126.3       NO3:    0.4        F:   2.2
Sum Cations:  334.4  Sum Anions:  329.6  Cations/Anions: 1.01   Tot. P:  10.2
Tot. Al:   37.6    Ext. Al:    3.4    Fe:   102.0       Mn:     7.0    SiO2:  0.35

ID: 1C3-032   Name: BEAR POND                            State: ME  Date: 25OCT84
Sample Type: REGULAR            Latitude: 44-09'15"N    Longitude: 70-43'00"W
Elevation:  115   Surface Temp: 12.0  Stratified: STRONG     Site Depth:  21.3
Lake Area:      98 Watershed Area:    3788 WA/LA:     38.6 Hydro Type: DRAINAGE
Residence Time:  0.49  Secchi Depth:  4.9   Turbidity:   0.3      Color:   30
Closed pH: 6.92        Equil. pH: 7.18                ANC:  124.1        DOC:  3.24
Closed DIC:  1.56  Equil. DIC:  1.38    Meas. Cond:  35.7   Cal. Cond:  35.8
Ca:  134.2          Mg:    41.4       Na:   122.8         K:   12.8      NH4:   1.2
SO4:   83.5       HCO3:   102.1       Cl:    92.2       NO3:    0.0        F:   2.9
Sum Cations:  312.6  Sum Anions:  280.9  Cations/Anions: 1.11   Tot. P:   3.4
Tot. Al:   53.5    Ext. Al:   14.2    Fe:    49.0       Mn:     6.0    SiO2:  3.35

ID: 1C3-034   Name: HANSEN POND                          State: ME  Date: 29OCT84
Sample Type: REGULAR            Latitude: 43-35'45"N    Longitude: 70-54'30"W
Elevation:  157   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   2.1
Lake Area:      10 Watershed Area:      88 WA/LA:      8.9 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  1.2   Turbidity:   0.8      Color:   50
Closed pH: 6.40        Equil. pH: 7.41                ANC:  186.3        DOC:  7.16
Closed DIC:  3.65  Equil. DIC:  2.04    Meas. Cond:  30.8   Cal. Cond:  33.7
Ca:  152.9          Mg:    49.4       Na:    90.7         K:   13.0      NH4:   5.7
SO4:   52.4       HCO3:   161.9       Cl:    55.6       NO3:    0.8        F:   4.7
Sum Cations:  312.0  Sum Anions:  275.4  Cations/Anions: 1.13   Tot. P:   4.4
Tot. Al:   23.6    Ext. Al:    3.7    Fe:   293.0       Mn:    15.0    SiO2:  2.15
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C3-040   Name: WHEELWRIGHT POND                 State: NH  Date: 30OCT84
Sample Type: REGULAR             Latitude: 43-08'20"N    Longitude: 71-00'30"W
Elevation:   41   Surface Temp: 13.3  Stratified: MIXED      Site Depth:   8.2
Lake Area:     41 Watershed Area:    448 WA/LA:     10.8 Hydro Type: DRAINAGE
Residence Time:  0.81  Secchi Depth:  2.3   Turbidity:   1.1      Color:   45
Closed pH: 7.05        Equil. pH: 7.62              ANC:  285.5         DOC:  5.67
Closed DIC:  3.68   Equil. DIC:  3.20    Meas. Cond:  80.4   Cal. Cond:  74.5
Ca:  303.6          Mg:   81.3       Na:  336.3         K:  21.1        NH4:   1.3
SO4:  120.4       HCO3:  236.7       Cl:  174.3       NO3:   0.1           F:   1.8
Sum Cations:  743.7  Sum Anions:  533.6  Cations/Anions: 1.39   Tot. P:   9.2
Tot. Al:   22.3    Ext. Al:   1.2    Fe:  173.0     Mn:    18.0    SiO2:  3.57

ID: 1C3-043   Name: ARLINGTON MILL RESERVOIR         State: NH  Date: 30OCT84
Sample Type: REGULAR             Latitude: 42-49'15"N    Longitude: 71-12'30"W
Elevation:   49   Surface Temp: 14.1  Stratified: MIXED      Site Depth:   8.2
Lake Area:    111 Watershed Area:   5287 WA/LA:     47.7 Hydro Type: RESERVOIR
Residence Time:  0.20  Secchi Depth:  3.0   Turbidity:   0.7      Color:   20
Closed pH: 6.87        Equil. pH: 7.39              ANC:  171.7         DOC:  4.51
Closed DIC:  2.32   Equil. DIC:  1.96    Meas. Cond:  84.0   Cal. Cond:  92.6
Ca:  244.8          Mg:   70.4       Na:  380.2         K:  32.5        NH4:   1.9
SO4:  143.1       HCO3:  142.1       Cl:  456.0       NO3:   0.6           F:   2.1
Sum Cations:  730.0  Sum Anions:  744.0  Cations/Anions: 0.98   Tot. P:   6.0
Tot. Al:   27.4    Ext. Al:   0.4    Fe:   34.0     Mn:     8.0    SiO2:  1.01

ID: 1C3-044   Name: NATICOOK LAKE                    State: NH  Date: 31OCT84
Sample Type: REGULAR             Latitude: 42-49'10"N    Longitude: 71-31'45"W
Elevation:   63   Surface Temp: 13.5  Stratified: MIXED      Site Depth:   5.5
Lake Area:     30 Watershed Area:    153 WA/LA:      5.1 Hydro Type: DRAINAGE
Residence Time:  0.83  Secchi Depth:  5.5   Turbidity:   0.3      Color:   15
Closed pH: 6.80        Equil. pH: 7.53              ANC:  239.6         DOC:  3.49
Closed DIC:  3.47   Equil. DIC:  2.61    Meas. Cond: 168.5   Cal. Cond: 171.9
Ca:  331.8          Mg:  136.6       Na:  861.7         K:  51.7        NH4:   4.1
SO4:  143.6       HCO3:  209.4       Cl: 1004.1       NO3:   1.5           F:   2.4
Sum Cations: 1386.0  Sum Anions: 1361.1  Cations/Anions: 1.02   Tot. P:   7.4
Tot. Al:   19.0    Ext. Al:   1.8    Fe:   25.0     Mn:     2.0    SiO2:  1.07

ID: 1C3-045   Name: KENOZA LAKE                      State: MA  Date: 31OCT84
Sample Type: REGULAR             Latitude: 42-47'15"N    Longitude: 71-03'30"W
Elevation:   34   Surface Temp: 13.6  Stratified: MIXED      Site Depth:  11.6
Lake Area:    100 Watershed Area:    528 WA/LA:      5.3 Hydro Type: DRAINAGE
Residence Time:  2.08  Secchi Depth:  4.2   Turbidity:   0.5      Color:   20
Closed pH: 7.33        Equil. pH: 7.76              ANC:  363.5         DOC:  4.30
Closed DIC:  4.07   Equil. DIC:  4.05    Meas. Cond: 141.2   Cal. Cond: 150.0
Ca:  453.6          Mg:  163.7       Na:  569.8         K:  35.8        NH4:   1.1
SO4:  310.2       HCO3:  327.7       Cl:  570.0       NO3:   0.3           F:   2.6
Sum Cations: 1224.1  Sum Anions: 1211.6  Cations/Anions: 1.01   Tot. P:  15.0
Tot. Al:   37.3    Ext. Al:   2.2    Fe:    0.0     Mn:     4.0    SiO2:  2.43

ID: 1C3-047   Name: JOHNSONS POND                    State: MA  Date: 31OCT84
Sample Type: REGULAR             Latitude: 42-43'45"N    Longitude: 71-03'15"W
Elevation:   21   Surface Temp: 13.9  Stratified: MIXED      Site Depth:   6.1
Lake Area:     72 Watershed Area:   1334 WA/LA:     18.5 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  3.8   Turbidity:   0.8      Color:   25
Closed pH: 7.27        Equil. pH: 7.88              ANC:  469.3         DOC:  4.26
Closed DIC:  5.57   Equil. DIC:  5.25    Meas. Cond:  99.9   Cal. Cond: 104.6
Ca:  418.2          Mg:  171.9       Na:  264.1         K:  32.8        NH4:   4.3
SO4:  221.7       HCO3:  420.3       Cl:  234.5       NO3:   2.3           F:   2.6
Sum Cations:  891.3  Sum Anions:  882.2  Cations/Anions: 1.01   Tot. P:  18.6
Tot. Al:   26.6    Ext. Al:   3.1    Fe:    2.0     Mn:     7.0    SiO2:  0.80
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C3-048   Name: ALTHEA LAKE                        State: MA  Date: 31OCT84
Sample Type: REGULAR            Latitude: 42-40'10"N    Longitude: 71-22'50"W
Elevation:   47   Surface Temp: 13.5  Stratified: MIXED      Site Depth:   3.0
Lake Area:      18 Watershed Area:      62 WA/LA:     3.5 Hydro Type: DRAINAGE
Residence Time:  0.72  Secchi Depth:  2.1  Turbidity:   1.0     Color:    40
Closed pH: 6.74       Equil. pH: 7.51              ANC:  250.6        DOC:  5.73
Closed DIC:  3.83   Equil. DIC:  2.67    Meas. Cond: 181.7   Cal. Cond: 189.6
Ca:  288.5           Mg:   87.1        Na: 1135.3        K:  43.0       NH4:   5.0
SO4:  138.9        HCO3:  211.9        Cl: 1134.7      NO3:    1.1         F:   2.9
Sum Cations: 1559.2  Sum Anions: 1489.5  Cations/Anions: 1.05   Tot. P:  15.2
Tot. Al:    19.2    Ext. Al:    2.7    Fe:  330.0      Mn:    14.0     SiO2:  0.56

ID: 1C3-050   Name: NEWFIELD POND                      State: MA  Date: 31OCT84
Sample Type: REGULAR            Latitude: 42-38'00"N    Longitude: 71-23'20"W
Elevation:   37   Surface Temp: 13.7  Stratified: MIXED      Site Depth:   6.4
Lake Area:      35 Watershed Area:     132 WA/LA:     3.8 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  2.1  Turbidity:   1.5     Color:    30
Closed pH: 7.13       Equil. pH: 7.90              ANC:  517.3        DOC:  4.65
Closed DIC:  6.45   Equil. DIC:  5.50    Meas. Cond: 244.7   Cal. Cond: 254.3
Ca:  578.3           Mg:  183.4        Na: 1265.0        K:  66.3       NH4:   3.3
SO4:  229.3        HCO3:  459.9        Cl: 1336.3      NO3:    6.9         F:   5.8
Sum Cations: 2096.5  Sum Anions: 2039.0  Cations/Anions: 1.03   Tot. P:  15.6
Tot. Al:   151.8    Ext. Al:    2.2    Fe:   91.0      Mn:     6.0     SiO2:  3.00

ID: 1C3-051   Name: SALEM POND                         State: VT  Date: 18OCT84
Sample Type: REGULAR            Latitude: 44-55'47"N    Longitude: 72-06'17"W
Elevation:  294   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   7.1
Lake Area:     243 Watershed Area:   34092 WA/LA:   140.4 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  3.9  Turbidity:   1.2     Color:    15
Closed pH: 7.83       Equil. pH: 8.21              ANC:  853.3        DOC:  3.70
Closed DIC:  9.93   Equil. DIC:  9.16    Meas. Cond: 117.8   Cal. Cond: 114.1
Ca:  823.8           Mg:  127.5        Na:  162.2        K:  27.5       NH4:   1.3
SO4:  128.0        HCO3:  780.0        Cl:   30.0      NO3:    3.2         F:   6.4
Sum Cations: 1142.3  Sum Anions:  952.1  Cations/Anions: 1.20   Tot. P:  18.0
Tot. Al:   125.5    Ext. Al:    8.9    Fe:   10.0      Mn:    35.0     SiO2:  4.32

ID: 1C3-055   Name: DARRAH POND                        State: NH  Date: 31OCT84
Sample Type: REGULAR            Latitude: 42-49'52"N    Longitude: 71-26'40"W
Elevation:   58   Surface Temp: 13.3  Stratified: MIXED      Site Depth:   7.3
Lake Area:       5 Watershed Area:      39 WA/LA:     7.4 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  7.3  Turbidity:   0.1     Color:     5
Closed pH: 4.45       Equil. pH: 4.51              ANC:  -31.0        DOC:  0.53
Closed DIC:  0.52   Equil. DIC:  0.14    Meas. Cond:  26.3   Cal. Cond:  28.7
Ca:   25.0           Mg:   18.6        Na:   38.5        K:  10.8       NH4:   2.4
SO4:   91.4        HCO3:    0.5        Cl:   44.5      NO3:    9.4         F:   1.0
Sum Cations:  129.3  Sum Anions:  146.8  Cations/Anions: 0.88   Tot. P:   7.2
Tot. Al:   133.2    Ext. Al:   40.3    Fe:   14.0      Mn:    60.0     SiO2:  0.07

ID: 1C3-059   Name: (NO NAME)                          State: VT  Date: 29OCT84
Sample Type: REGULAR            Latitude: 44-32'06"N    Longitude: 73-05'52"W
Elevation:  155   Surface Temp: 13.1  Stratified: MIXED      Site Depth:   4.9
Lake Area:      20 Watershed Area:     287 WA/LA:    14.6 Hydro Type: RESERVOIR
Residence Time:  0.27  Secchi Depth:  1.4  Turbidity:   2.8     Color:    25
Closed pH: 7.62       Equil. pH: 8.29              ANC: 1094.9        DOC:  3.58
Closed DIC: 12.83   Equil. DIC: 12.23    Meas. Cond: 122.1   Cal. Cond: 125.1
Ca:  647.7           Mg:  440.1        Na:   68.0        K:  14.3       NH4:   3.4
SO4:  130.5        HCO3:  977.3        Cl:   52.2      NO3:    0.9         F:   1.9
Sum Cations: 1173.6  Sum Anions: 1168.7  Cations/Anions: 1.00   Tot. P:  13.4
Tot. Al:    50.7    Ext. Al:    4.7    Fe:   48.0      Mn:   155.0     SiO2:  0.88
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C3-060   Name: STEARNS POND                          State: ME  Date: 25OCT84
Sample Type: REGULAR             Latitude: 44-07'20"N    Longitude: 70-46'38"W
Elevation:  134   Surface Temp: 12.3  Stratified: MIXED      Site Depth:  13.4
Lake Area:     100 Watershed Area:   2341 WA/LA:    23.4 Hydro Type: DRAINAGE
Residence Time:  0.50  Secchi Depth:  5.0   Turbidity:   0.3      Color:   25
Closed pH: 6.67       Equil. pH: 7.11                ANC:   87.2        DOC:  4.05
Closed DIC:  1.10   Equil. DIC:  0.91    Meas. Cond:  24.9   Cal. Cond:  25.5
Ca:  110.3           Mg:   31.4        Na:   79.4        K:   6.5       NH4:   2.9
SO4:   72.3       HCO3:   63.3       Cl:   49.5       NO3:   0.0          F:   2.5
Sum Cations:  230.7  Sum Anions:  187.6  Cations/Anions: 1.23   Tot. P:    3.8
Tot. Al:    75.2    Ext. Al:   13.0     Fe:    33.0      Mn:   17.0     SiO2:  3.46


ID: 1C3-061   Name: HOVEYS POND                           State: MA  Date: 31OCT84
Sample Type: REGULAR             Latitude: 42-43'05"N    Longitude: 71-04'37"W
Elevation:   40   Surface Temp: 13.5  Stratified: WEAK       Site Depth:  12.8
Lake Area:      15 Watershed Area:     91 WA/LA:     6.3 Hydro Type: DRAINAGE
Residence Time:  1.63  Secchi Depth:  2.3   Turbidity:   1.2      Color:   20
Closed pH: 7.49       Equil. pH: 7.81                ANC:  415.0        DOC:  5.13
Closed DIC:  4.61   Equil. DIC:  4.68    Meas. Cond: 120.6   Cal. Cond: 128.7
Ca:  481.0           Mg:  194.1        Na:  346.3        K:  41.1       NH4:   1.2
SO4:  311.1       HCO3:  367.4       Cl:  364.2       NO3:   0.8          F:   2.9
Sum Cations: 1063.8  Sum Anions: 1047.3  Cations/Anions: 1.02   Tot. P:    7.3
Tot. Al:    48.0    Ext. Al:    3.1     Fe:     0.0      Mn:    0.0     SiO2:  1.05


ID: 1C3-062   Name: (NO NAME)                             State: MA  Date: 01NOV84
Sample Type: REGULAR             Latitude: 42-36'50"N    Longitude: 71-38'18"W
Elevation:   73   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   2.7
Lake Area:      15 Watershed Area:  18070 WA/LA:  1188.8 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  3.1   Turbidity:   0.5      Color:   40
Closed pH: 6.49       Equil. pH: 7.51                ANC:  214.2        DOC:  3.97
Closed DIC:  3.88   Equil. DIC:  2.22    Meas. Cond: 117.9   Cal. Cond: 121.2
Ca:  222.8           Mg:   81.5        Na:  605.1        K:  61.0       NH4:   2.7
SO4:  133.7       HCO3:  168.5       Cl:  640.6       NO3:  19.0          F:   2.4
Sum Cations:  973.3  Sum Anions:  964.2  Cations/Anions: 1.01   Tot. P:   12.2
Tot. Al:    76.5    Ext. Al:    7.6     Fe:   272.0      Mn:   22.0     SiO2:  7.88


ID: 1C3-063   Name: MARTIN MEADOW POND                    State: NH  Date: 25OCT84
Sample Type: REGULAR             Latitude: 44-26'30"N    Longitude: 71-36'30"W
Elevation:  326   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   7.9
Lake Area:      50 Watershed Area:    399 WA/LA:     8.0 Hydro Type: DRAINAGE
Residence Time:  0.64  Secchi Depth:  2.8   Turbidity:   1.0      Color:   35
Closed pH: 7.10       Equil. pH: 7.73                ANC:  340.2        DOC:  6.75
Closed DIC:  4.16   Equil. DIC:  3.73    Meas. Cond:  72.9   Cal. Cond:  78.4
Ca:  319.3           Mg:   85.5        Na:  252.2        K:  18.0       NH4:   1.3
SO4:  108.3       HCO3:  312.8       Cl:  236.9       NO3:   0.1          F:   1.8
Sum Cations:  676.4  Sum Anions:  660.3  Cations/Anions: 1.02   Tot. P:    9.6
Tot. Al:    40.2    Ext. Al:    5.5     Fe:   153.0      Mn:   49.0     SiO2:  2.82


ID: 1C3-064   Name: KETTLE POND                           State: VT  Date: 25OCT84
Sample Type: REG/SPC/LTM/        Latitude: 44-17'40"N    Longitude: 72-19'08"W
Elevation:  440   Surface Temp: 11.2  Stratified: MIXED      Site Depth:   4.0
Lake Area:      44 Watershed Area:    355 WA/LA:     8.1 Hydro Type: DRAINAGE
Residence Time:  0.44  Secchi Depth:  1.6   Turbidity:   1.2      Color:   20
Closed pH: 6.87       Equil. pH: 7.07                ANC:   87.6        DOC:  5.39
Closed DIC:  0.97   Equil. DIC:  0.90    Meas. Cond:  24.5   Cal. Cond:  26.1
Ca:  142.7           Mg:   31.3        Na:   44.2        K:   8.2       NH4:   1.1
SO4:  113.2       HCO3:   72.2       Cl:    8.5       NO3:   0.3          F:   2.2
Sum Cations:  227.6  Sum Anions:  196.4  Cations/Anions: 1.16   Tot. P:    7.3
Tot. Al:    70.0    Ext. Al:    8.2     Fe:     1.0      Mn:   14.0     SiO2:  3.03
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C3-065   Name: WALKER POND                        State: VT  Date: 03NOV84
Sample Type: REGULAR             Latitude: 43-44'33"N    Longitude: 73-08'27"W
Elevation:  290   Surface Temp: 10.0  Stratified: MIXED      Site Depth:  12.2
Lake Area:       5 Watershed Area:    370 WA/LA:     71.1 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  2.9   Turbidity:   0.6     Color:   15
Closed pH: 7.57        Equil. pH: 8.13              ANC:  870.8         DOC:  3.70
Closed DIC:  9.93   Equil. DIC:  9.26    Meas. Cond: 100.9   Cal. Cond: 105.4
Ca:  758.5          Mg:  197.4        Na:    27.0         K:    7.1      NH4:  0.9
SO4:  152.7       HCO3:  776.8        Cl:    10.4       NO3:    0.0        F:  1.4
Sum Cations:  990.9  Sum Anions:  943.9  Cations/Anions: 1.05   Tot. P:   6.0
Tot. Al:    50.7    Ext. Al:    1.8    Fe:     9.0      Mn:    24.0    SiO2:  0.35


ID: 1C3-066   Name: LAKE PARAN                         State: VT  Date: 04NOV84
Sample Type: REGULAR             Latitude: 42-55'57"N    Longitude: 73-14'00"W
Elevation:  197   Surface Temp:  7.9  Stratified: MIXED      Site Depth:   2.4
Lake Area:      14 Watershed Area:   3649 WA/LA:    257.0 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  2.4   Turbidity:   1.6     Color:   30
Closed pH: 8.09        Equil. pH: 8.76              ANC: 4046.6         DOC:  2.24
Closed DIC: 48.99   Equil. DIC: 46.91    Meas. Cond: 453.5   Cal. Cond: 519.1
Ca: 2526.9          Mg: 1711.0        Na:   536.8         K:   32.8      NH4:  1.9
SO4:  193.2       HCO3: 4051.3        Cl:   622.3       NO3:   11.6        F:  1.8
Sum Cations: 4809.4  Sum Anions: 4945.9  Cations/Anions: 0.97   Tot. P:   6.8
Tot. Al:    30.8    Ext. Al:    1.4    Fe:    31.0      Mn:    14.0    SiO2:  4.98


ID: 1C3-067   Name: WARREN POND                        State: ME  Date: 30OCT84
Sample Type: REGULAR             Latitude: 43-13'37"N    Longitude: 70-43'40"W
Elevation:   54   Surface Temp: 13.1  Stratified: WEAK       Site Depth:   9.4
Lake Area:      10 Watershed Area:     98 WA/LA:      9.8 Hydro Type: DRAINAGE
Residence Time:  1.01  Secchi Depth:  4.5   Turbidity:   0.5     Color:   10
Closed pH: 5.81        Equil. pH: 6.27              ANC:   18.5         DOC:  3.96
Closed DIC:  0.66   Equil. DIC:  0.28    Meas. Cond:  20.1   Cal. Cond:  22.2
Ca:   44.1          Mg:   32.8        Na:    90.1         K:    5.0      NH4:  1.4
SO4:   79.4       HCO3:   11.7        Cl:    67.6       NO3:    0.3        F:  4.1
Sum Cations:  175.0  Sum Anions:  163.2  Cations/Anions: 1.07   Tot. P:   7.5
Tot. Al:    79.1    Ext. Al:   21.2    Fe:    41.0      Mn:    13.0    SiO2:  2.32


ID: 1C3-068   Name: FRENCH POND                        State: NH  Date: 25OCT84
Sample Type: REGULAR             Latitude: 44-06'05"N    Longitude: 71-58'08"W
Elevation:  234   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   6.4
Lake Area:      13 Watershed Area:    360 WA/LA:     28.1 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  4.4   Turbidity:   0.5     Color:   25
Closed pH: 7.06        Equil. pH: 7.81              ANC:  371.3         DOC:  4.33
Closed DIC:  4.95   Equil. DIC:  4.26    Meas. Cond:  70.7   Cal. Cond:  74.4
Ca:  336.1          Mg:  102.5        Na:   151.9         K:   28.5      NH4:  1.3
SO4:  162.7       HCO3:  352.6        Cl:   132.9       NO3:    0.3        F:  4.3
Sum Cations:  620.3  Sum Anions:  653.5  Cations/Anions: 0.95   Tot. P:   9.6
Tot. Al:    10.0    Ext. Al:    5.5    Fe:    68.0      Mn:     2.0    SiO2:  7.37


ID: 1C3-069   Name: UNKNOWN POND                       State: ME  Date: 18OCT84
Sample Type: REGULAR             Latitude: 45-36'15"N    Longitude: 70-38'04"W
Elevation:  491   Surface Temp:  8.9  Stratified: MIXED      Site Depth:   2.1
Lake Area:       4 Watershed Area:    166 WA/LA:     37.7 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.9   Turbidity:   0.5     Color:   20
Closed pH: 7.56        Equil. pH: 7.77              ANC:  388.6         DOC:  4.87
Closed DIC:  4.58   Equil. DIC:  4.20    Meas. Cond:  49.6   Cal. Cond:  51.6
Ca:  249.8          Mg:  192.9        Na:    46.2         K:   10.7      NH4:  0.7
SO4:   85.8       HCO3:  355.2        Cl:     6.9       NO3:    0.2        F:  1.5
Sum Cations:  500.4  Sum Anions:  450.8  Cations/Anions: 1.11   Tot. P:  14.7
Tot. Al:    41.2    Ext. Al:   16.6    Fe:    32.0      Mn:    24.0    SiO2:  3.05
```

(continued)

TABLE 3-1 (continued)

```
ID: 1C3-072   Name: LAKE ST. CATHERINE             State: VT  Date: 03NOV84
Sample Type: REGULAR            Latitude: 43-27'30"N   Longitude: 73-12'30"W
Elevation:  148   Surface Temp: 12.8  Stratified: MIXED     Site Depth:  16.5
Lake Area:    350 Watershed Area:   2997 WA/LA:     8.6 Hydro Type: DRAINAGE
Residence Time:  2.02  Secchi Depth:  4.9   Turbidity:  0.7      Color:   15
Closed pH: 7.46        Equil. pH: 7.95              ANC:  567.2        DOC:  2.10
Closed DIC:  6.57   Equil. DIC:  6.04    Meas. Cond:  95.7   Cal. Cond: 103.2
Ca:  546.4          Mg:  166.2        Na:  177.4          K:  13.0      NH4:  1.2
SO4:  201.0       HCO3:  507.6        Cl:  171.8        NO3:   0.0        F:  1.2
Sum Cations:  904.2  Sum Anions:  882.9  Cations/Anions: 1.02   Tot. P:   7.0
Tot. Al:   39.0    Ext. Al:   1.5    Fe:    0.0      Mn:   29.0     SiO2:  1.23
```

```
ID: 1C3-073   Name: PONTOOSUC LAKE                 State: MA  Date: 07NOV84
Sample Type: REGULAR            Latitude: 42-30'00"N   Longitude: 73-15'00"W
Elevation:  335   Surface Temp:  8.9  Stratified: MIXED     Site Depth:   8.2
Lake Area:    214 Watershed Area:   5672 WA/LA:    26.5 Hydro Type: DRAINAGE
Residence Time:  0.22  Secchi Depth:  1.3   Turbidity:  2.5      Color:   15
Closed pH: 7.94        Equil. pH: 8.50              ANC: 1707.3        DOC:  1.82
Closed DIC: 19.18   Equil. DIC: 16.54    Meas. Cond: 206.5   Cal. Cond: 197.4
Ca: 1297.4          Mg:   51.4        Na:  270.5          K:  16.4      NH4:  3.6
SO4:  162.0       HCO3: 1493.8        Cl:  288.0        NO3:   1.3        F:  1.6
Sum Cations: 1639.3  Sum Anions: 1959.1  Cations/Anions: 0.84   Tot  P:  31.1
Tot. Al:  131.6    Ext. Al:   2.2    Fe:   55.0      Mn:  119.0     SiO2:  1.21
```

```
ID: 1C3-074   Name: BLACK BROOK POND               State: ME  Date: 19OCT84
Sample Type: REGULAR            Latitude: 45-24'09"N   Longitude: 69-53'52"W
Elevation:  272   Surface Temp: 10.1  Stratified: MIXED     Site Depth:   1.2
Lake Area:    140 Watershed Area:   5322 WA/LA:    37.9 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  0.5   Turbidity:  1.3      Color:   45
Closed pH: 7.64        Equil. pH: 7.28              ANC:  157.7        DOC: 11.42
Closed DIC:  1.14   Equil. DIC:  1.40    Meas. Cond:  29.5   Cal. Cond:  29.6
Ca:  175.2          Mg:   62.7        Na:   42.0          K:   7.7      NH4:  1.4
SO4:   84.6       HCO3:  118.5        Cl:   11.9        NO3:   0.0        F:  2.0
Sum Cations:  289.2  Sum Anions:  217.1  Cations/Anions: 1.33   Tot. P:  10.1
Tot. Al:  101.8    Ext. Al:   6.5    Fe:   14.0      Mn:    0.0     SiO2:  4.10
```

```
ID: 1D1-003   Name: QUEEN LAKE                     State: MA  Date: 08NOV84
Sample Type: REGULAR            Latitude: 42-32'00"N   Longitude: 72-07'00"W
Elevation: 1128   Surface Temp:  8.9  Stratified: MIXED     Site Depth:   4.9
Lake Area:     60 Watershed Area:    179 WA/LA:     3.0 Hydro Type: DRAINAGE
Residence Time:  1.00  Secchi Depth:  4.5   Turbidity:  0.5      Color:    5
Closed pH: 6.99        Equil. pH: 7.39              ANC:   79.9        DOC:  2.40
Closed DIC:  1.04   Equil. DIC:  0.92    Meas. Cond:  36.9   Cal. Cond:  37.8
Ca:  113.3          Mg:   42.0        Na:  127.0          K:  17.6      NH4:  0.0
SO4:  102.6       HCO3:   64.0        Cl:  127.5        NO3:   0.0        F:  5.3
Sum Cations:  300.1  Sum Anions:  299.5  Cations/Anions: 1.00   Tot. P:   8.0
Tot. Al:   37.0    Ext. Al:   1.0    Fe:   20.0      Mn:    0.0     SiO2:  0.16
```

```
ID: 1D1-004   Name: QUABBIN RESERVOIR              State: MA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 42-25'00"N   Longitude: 72-17'30"W
Elevation:  524   Surface Temp: 13.7  Stratified: MIXED     Site Depth:   7.6
Lake Area:   9059 Watershed Area:  46936 WA/LA:     5.2 Hydro Type: RESERVOIR
Residence Time:  1.12  Secchi Depth:  7.1   Turbidity:  0.2      Color:    5
Closed pH: 6.64        Equil. pH: 6.81              ANC:   50.3        DOC:  1.89
Closed DIC:  0.80   Equil. DIC:  0.58    Meas. Cond:  36.7   Cal. Cond:  37.1
Ca:  105.5          Mg:   41.8        Na:  125.1          K:  13.8      NH4:  1.3
SO4:  132.4       HCO3:   43.7        Cl:  111.0        NO3:   0.2        F:  2.2
Sum Cations:  287.7  Sum Anions:  289.4  Cations/Anions: 0.99   Tot. P:   3.3
Tot. Al:   12.0    Ext. Al:   3.1    Fe:    0.0      Mn:    0.0     SiO2:  1.09
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D1-006   Name: WHITEHALL POND                     State: MA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 42-22'15"N   Longitude: 71-59'45"W
Elevation:  836   Surface Temp: 11.3  Stratified: MIXED     Site Depth:   4.0
Lake Area:      10 Watershed Area:    1305 WA/LA:    126.7 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  3.1   Turbidity:   0.4     Color:   10
Closed pH: 6.91         Equil. pH: 7.23              ANC:  152.5        DOC:  3.27
Closed DIC:  1.94   Equil. DIC:  1.72    Meas. Cond: 104.3   Cal. Cond: 110.1
Ca:  204.3          Mg:   66.5       Na:  546.4        K:  37.0       NH4:   1.1
SO4:  111.2       HCO3:  120.8      Cl:  652.5       NO3:   0.5         F:   2.5
Sum Cations:  855.4  Sum Anions:  887.6  Cations/Anions: 0.96   Tot. P:    6.7
Tot. Al:   27.1    Ext. Al:    1.2    Fe:   41.0      Mn:    2.0     SiO2:  0.29

ID: 1D1-007   Name: DEAN POND                          State: MA  Date: 08NOV84
Sample Type: REGULAR            Latitude: 42-20'45"N   Longitude: 72-01'30"W
Elevation:  801   Surface Temp:  6.4  Stratified: MIXED     Site Depth:   1.5
Lake Area:      25 Watershed Area:     531 WA/LA:     20.9 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.5   Turbidity:   1.9     Color:   30
Closed pH: 6.92         Equil. pH: 7.31              ANC:  164.9        DOC:  4.80
Closed DIC:  2.01   Equil. DIC:  1.80    Meas. Cond:  56.2   Cal. Cond:  57.7
Ca:  163.2          Mg:   65.0       Na:  211.0        K:  37.3       NH4:   0.0
SO4:   93.7       HCO3:  127.1      Cl:  234.7       NO3:   0.1         F:   2.5
Sum Cations:  476.7  Sum Anions:  458.3  Cations/Anions: 1.04   Tot. P:   20.0
Tot. Al:   36.0    Ext. Al:    6.0    Fe:   70.0      Mn:    0.0     SiO2:  1.86

ID: 1D1-008   Name: KENDALL RESERVOIR                  State: MA  Date: 12NOV84
Sample Type: REGULAR            Latitude: 42-20'30"N   Longitude: 71-53'30"W
Elevation:  813   Surface Temp: 10.4  Stratified: MIXED     Site Depth:   6.1
Lake Area:      57 Watershed Area:     456 WA/LA:      8.0 Hydro Type: RESERVOIR
Residence Time:  0.52  Secchi Depth:  2.8   Turbidity:   0.8     Color:   15
Closed pH: 6.99         Equil. pH: 7.63              ANC:  116.5        DOC:  2.70
Closed DIC:  1.63   Equil. DIC:  1.46    Meas. Cond:  61.8   Cal. Cond:  63.4
Ca:  206.1          Mg:   68.3       Na:  207.5        K:  29.1       NH4:   0.0
SO4:  172.0       HCO3:  103.3      Cl:  215.0       NO3:   0.0         F:   3.4
Sum Cations:  511.1  Sum Anions:  493.7  Cations/Anions: 1.04   Tot. P:    4.0
Tot. Al:   17.0    Ext. Al:    2.0    Fe:   30.0      Mn:   10.0     SiO2:  1.56

ID: 1D1-009   Name: LARKUM POND                        State: MA  Date: 07NOV84
Sample Type: REGULAR            Latitude: 42-09'50"N   Longitude: 73-03'30"W
Elevation: 1283   Surface Temp:  9.6  Stratified: WEAK      Site Depth:  11.0
Lake Area:       7 Watershed Area:      91 WA/LA:     12.6 Hydro Type: DRAINAGE
Residence Time:  0.62  Secchi Depth:  2.2   Turbidity:   0.6     Color:   35
Closed pH: 7.03         Equil. pH: 7.68              ANC:  301.6        DOC:  4.47
Closed DIC:  3.78   Equil. DIC:  2.89    Meas. Cond:  65.6   Cal. Cond:  68.5
Ca:  265.0          Mg:  144.8       Na:  164.4        K:  19.2       NH4:   4.6
SO4:  157.2       HCO3:  249.0      Cl:  147.2       NO3:   0.1         F:   2.7
Sum Cations:  598.1  Sum Anions:  556.6  Cations/Anions: 1.07   Tot. P:    8.2
Tot. Al:   77.2    Ext. Al:    4.5    Fe:   46.0      Mn:   11.0     SiO2:  4.11

ID: 1D1-011   Name: (NO NAME)                          State: MA  Date: 08NOV84
Sample Type: REGULAR            Latitude: 42-03'00"N   Longitude: 73-13'15"W
Elevation:  358   Surface Temp:  7.5  Stratified: MIXED     Site Depth:   3.4
Lake Area:      27 Watershed Area:     445 WA/LA:     16.7 Hydro Type: RESERVOIR
Residence Time:  0.15  Secchi Depth:  1.8   Turbidity:   2.2     Color:   45
Closed pH: 7.34         Equil. pH: 8.20              ANC:  532.4        DOC:  5.30
Closed DIC:  6.63   Equil. DIC:  5.91    Meas. Cond:  65.5   Cal. Cond:  67.3
Ca:  345.8          Mg:  212.2       Na:   55.2        K:  20.7       NH4:  15.0
SO4:   74.3       HCO3:  492.5      Cl:   23.7       NO3:   2.5         F:   2.7
Sum Cations:  649.0  Sum Anions:  597.1  Cations/Anions: 1.09   Tot. P:   21.0
Tot. Al:   22.0    Ext. Al:    0.0    Fe:  250.0      Mn:  140.0     SiO2:  0.62
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D1-012   Name: GOOSE POND                         State: MA  Date: 08NOV84
Sample Type: REGULAR             Latitude: 42-00'30"N   Longitude: 72-46'37"W
Elevation:  226   Surface Temp:  9.8  Stratified: MIXED     Site Depth:   4.9
Lake Area:       4 Watershed Area:     52 WA/LA:     12.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.5   Turbidity:   2.6     Color:   70
Closed pH: 6.47      Equil. pH: 7.76               ANC:  293.5        DOC:  7.70
Closed DIC:  6.52   Equil. DIC:  3.27    Meas. Cond:  53.8   Cal. Cond:  53.1
Ca:  243.5          Mg:  101.2       Na:   79.6        K:  35.5      NH4: 25.5
SO4:  105.3       HCO3:  288.5       Cl:   43.7      NO3:   0.1        F:  2.2
Sum Cations:  485.5  Sum Anions:  440.0  Cations/Anions: 1.10   Tot. P:  40.0
Tot. Al:   41.0    Ext. Al:   5.0    Fe:  260.0     Mn:   50.0    SiO2:  2.20

ID: 1D1-014   Name: HAMILTON RESERVOIR                 State: MA  Date: 03NOV84
Sample Type: REGULAR             Latitude: 42-02'19"N   Longitude: 72-09'16"W
Elevation:  683   Surface Temp: 11.4  Stratified: MIXED     Site Depth:   2.4
Lake Area:     163 Watershed Area:   2919 WA/LA:     17.9 Hydro Type: RESERVOIR
Residence Time:  0.10  Secchi Depth:  1.6   Turbidity:   2.3     Color:   20
Closed pH: 7.01      Equil. pH: 7.29               ANC:  140.8        DOC:  3.78
Closed DIC:  1.72   Equil. DIC:  1.54    Meas. Cond:  72.7   Cal. Cond:  76.5
Ca:  167.4          Mg:  121.7       Na:  290.1        K:  20.5      NH4:  1.3
SO4:  159.6       HCO3:  118.3       Cl:  338.0      NO3:   0.0        F:  1.8
Sum Cations:  601.2  Sum Anions:  617.9  Cations/Anions: 0.97   Tot. P:  12.7
Tot. Al:  114.4    Ext. Al:   1.6    Fe:   17.0     Mn:    4.0    SiO2:  2.12

ID: 1D1-015   Name: (NO NAME)                          State: CT  Date: 13NOV84
Sample Type: REGULAR             Latitude: 42-01'30"N   Longitude: 72-08'15"W
Elevation:  213   Surface Temp:  8.8  Stratified: MIXED     Site Depth:   0.9
Lake Area:       8 Watershed Area:   1000 WA/LA:    129.9 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.0   Turbidity:   1.0     Color:   30
Closed pH: 6.68      Equil. pH: 7.37               ANC:  122.4        DOC:  2.60
Closed DIC:  2.01   Equil. DIC:  1.56    Meas. Cond: 101.5   Cal. Cond: 112.1
Ca:  258.0          Mg:  184.3       Na:  358.9        K:  29.9      NH4:  0.0
SO4:  253.6       HCO3:  113.2       Cl:  542.2      NO3:   0.0        F:  1.7
Sum Cations:  831.2  Sum Anions:  910.8  Cations/Anions: 0.91   Tot. P:   7.0
Tot. Al:   26.0    Ext. Al:   9.0    Fe:  310.0     Mn:   40.0    SiO2:  7.98

ID: 1D1-016   Name: MOREY POND                         State: CT  Date: 13NOV84
Sample Type: REGULAR             Latitude: 41-57'35"N   Longitude: 72-11'35"W
Elevation:  958   Surface Temp:  9.0  Stratified: MIXED     Site Depth:   3.7
Lake Area:      18 Watershed Area:    373 WA/LA:     20.7 Hydro Type: RESERVOIR
Residence Time:  0.13  Secchi Depth:  3.7   Turbidity:   1.2     Color:   20
Closed pH: 6.87      Equil. pH: 7.51               ANC:  153.4        DOC:  2.50
Closed DIC:  2.31   Equil. DIC:  1.91    Meas. Cond: 156.1   Cal. Cond: 168.4
Ca:  252.0          Mg:  180.1       Na:  813.0        K:  23.5      NH4:  7.2
SO4:  261.3       HCO3:  142.6       Cl:  959.1      NO3:   4.3        F:  1.7
Sum Cations: 1276.0  Sum Anions: 1369.1  Cations/Anions: 0.93   Tot. P:  15.0
Tot. Al:   17.0    Ext. Al:   1.0    Fe:  140.0     Mn:   90.0    SiO2:  3.19

ID: 1D1-017   Name: BISSONNETTE POND                   State: CT  Date: 13NOV84
Sample Type: REGULAR             Latitude: 41-55'25"N   Longitude: 72-13'05"W
Elevation:  674   Surface Temp:  8.8  Stratified: MIXED     Site Depth:   1.2
Lake Area:      20 Watershed Area:    963 WA/LA:     48.9 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  1.4   Turbidity:   1.4     Color:   55
Closed pH: 6.96      Equil. pH: 7.45               ANC:  230.6        DOC:  5.30
Closed DIC:  2.83   Equil. DIC:  2.45    Meas. Cond: 106.9   Cal. Cond: 114.1
Ca:  299.4          Mg:  229.5       Na:  368.0        K:  36.3      NH4:  1.1
SO4:  191.5       HCO3:  191.9       Cl:  509.2      NO3:   1.6        F:  1.5
Sum Cations:  934.4  Sum Anions:  896.0  Cations/Anions: 1.04   Tot. P:  12.0
Tot. Al:   44.0    Ext. Al:  17.0    Fe:  220.0     Mn:   20.0    SiO2:  6.87
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D1-018   Name: WILSON RESERVOIR                State: RI  Date: 08NOV84
Sample Type: REGULAR             Latitude: 41-58'10"N   Longitude: 71-43'45"W
Elevation:  439   Surface Temp:  7.9  Stratified: MIXED     Site Depth:   2.1
Lake Area:      44 Watershed Area:    2530 WA/LA:    57.2 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  1.8  Turbidity:  0.8      Color:   30
Closed pH: 6.18       Equil. pH: 6.61             ANC:   24.0        DOC:  4.35
Closed DIC:  0.71  Equil. DIC:  0.38   Meas. Cond:  51.8  Cal. Cond:  54.0
Ca:  104.0          Mg:   44.4      Na:  253.6        K:  26.5       NH4:  0.0
SO4:  141.3      HCO3:   21.2      Cl:  232.9      NO3:   0.0          F: 11.2
Sum Cations:  429.2  Sum Anions:  406.5  Cations/Anions: 1.06  Tot. P:  14.0
Tot. Al:  235.5   Ext. Al:   4.0   Fe:   95.0     Mn:   0.0    SiO2:  4.05

ID: 1D1-019   Name: WATERMAN POND                   State: RI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 41-42'50"N   Longitude: 71-43'45"W
Elevation:  462   Surface Temp:  9.5  Stratified: MIXED     Site Depth:   0.9
Lake Area:      13 Watershed Area:     290 WA/LA:    22.3 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.9  Turbidity:  0.6      Color:   35
Closed pH: 6.52       Equil. pH: 7.43             ANC:  185.7        DOC:  6.37
Closed DIC:  3.24  Equil. DIC:  1.90   Meas. Cond:  84.0  Cal. Cond:  88.2
Ca:  193.4          Mg:   76.1      Na:  372.4        K:  56.4       NH4:  1.9
SO4:  100.8      HCO3:  195.6      Cl:  423.2      NO3:   0.0          F: 10.3
Sum Cations:  700.4  Sum Anions:  730.1  Cations/Anions: 0.96  Tot. P:  27.6
Tot. Al:   42.0   Ext. Al:   6.6   Fe:  126.0     Mn:   5.0    SiO2:  1.16

ID: 1D1-020   Name: BAILEY POND                     State: CT  Date: 04NOV84
Sample Type: REGULAR             Latitude: 41-38'15"N   Longitude: 71-47'30"W
Elevation:  328   Surface Temp: 10.2  Stratified: MIXED     Site Depth:   1.5
Lake Area:      19 Watershed Area:     834 WA/LA:    45.1 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  0.9  Turbidity:  1.9      Color:   80
Closed pH: 6.21       Equil. pH: 6.78             ANC:   63.3        DOC:  8.38
Closed DIC:  1.20  Equil. DIC:  0.49   Meas. Cond:  38.4  Cal. Cond:  39.6
Ca:  101.9          Mg:   64.8      Na:  136.2        K:  25.1       NH4:  1.1
SO4:  127.5      HCO3:   44.1      Cl:  114.4      NO3:   0.0          F:  3.9
Sum Cations:  329.8  Sum Anions:  290.0  Cations/Anions: 1.14  Tot. P:  33.7
Tot. Al:  133.1   Ext. Al:  13.5   Fe:  309.0     Mn:  15.0    SiO2:  3.99

ID: 1D1-0[illegible]1   Name: TIPPECANSETT POND              State: RI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 41-35'50"N   Longitude: 71-47'00"W
Elevation:  396   Surface Temp: 10.2  Stratified: MIXED     Site Depth:   1.5
Lake Area:      23 Watershed Area:     189 WA/LA:     8.1 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  1.1  Turbidity:  1.6      Color:   70
Closed pH: 5.32       Equil. pH: 5.44             ANC:   10.9        DOC:  7.76
Closed DIC:  0.58  Equil. DIC:  0.18   Meas. Cond:  24.7  Cal. Cond:  25.3
Ca:   36.9          Mg:   31.8      Na:  106.0        K:  10.3       NH4:  2.7
SO4:   79.5      HCO3:    3.7      Cl:   84.5      NO3:   1.3          F:  4.8
Sum Cations:  192.8  Sum Anions:  173.8  Cations/Anions: 1.11  Tot. P:   6.9
Tot. Al:   90.7   Ext. Al:  15.4   Fe:  156.0     Mn:  12.0    SiO2:  2.60

ID: 1D1-022   Name: SECRET LAKE                     State: RI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 41-33'15"N   Longitude: 71-28'45"W
Elevation:   50   Surface Temp: 10.1  Stratified: MIXED     Site Depth:   2.1
Lake Area:      19 Watershed Area:     355 WA/LA:    19.0 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  0.7  Turbidity:  0.6      Color:  100
Closed pH: 6.35       Equil. pH: 7.57             ANC:  285.3        DOC:  8.93
Closed DIC:  5.80  Equil. DIC:  3.03   Meas. Cond: 131.7  Cal. Cond: 143.6
Ca:  467.6          Mg:  225.4      Na:  364.5        K:  51.2       NH4: 24.8
SO4:  441.6      HCO3:  272.0      Cl:  398.2      NO3:  24.1          F:  7.1
Sum Cations: 1133.7  Sum Anions: 1143.1  Cations/Anions: 0.99  Tot. P:  12.3
Tot. Al:  122.4   Ext. Al:  13.8   Fe:  217.0     Mn: 317.0    SiO2: 11.77
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D1-024   Name: THE RESERVOIR                     State: RI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 41-32'25"N    Longitude: 71-31'30"W
Elevation:  136   Surface Temp:  9.8  Stratified: MIXED     Site Depth:   1.2
Lake Area:       9 Watershed Area:    593 WA/LA:    68.9 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  1.0   Turbidity:   0.7      Color:   80
Closed pH: 6.46        Equil. pH: 7.43              ANC:  189.6         DOC:  6.78
Closed DIC:  3.43   Equil. DIC:  1.93    Meas. Cond: 114.1   Cal. Cond: 120.1
Ca:  235.3          Mg:  142.3         Na:  491.5           K:  47.7       NH4: 11.8
SO4:  270.9       HCO3:  195.0        Cl:  492.5         NO3:  18.1          F:  4.7
Sum Cations:  928.9  Sum Anions:  981.3  Cations/Anions: 0.95   Tot. P:  15.5
Tot. Al:  128.3    Ext. Al:  22.0     Fe:  257.0     Mn:    44.0     SiO2:  7.39

ID: 1D1-027   Name: SCHOOL HOUSE POND                 State: RI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 41-24'00"N    Longitude: 71-40'00"W
Elevation:   55   Surface Temp: 12.7  Stratified: MIXED     Site Depth:   4.2
Lake Area:      39 Watershed Area:    477 WA/LA:    12.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.2   Turbidity:   0.4      Color:   18
Closed pH: 6.46        Equil. pH: 7.00              ANC:   71.8         DOC:  3.36
Closed DIC:  1.25   Equil. DIC:  0.81    Meas. Cond:  39.3   Cal. Cond:  41.3
Ca:   81.7          Mg:    51.7        Na:  188.1           K:  11.8       NH4:  1.5
SO4:  101.0       HCO3:    57.8       Cl:  159.3         NO3:   0.6          F:  6.3
Sum Cations:  335.1  Sum Anions:  325.1  Cations/Anions: 1.03   Tot. P:   6.4
Tot. Al:   27.9    Ext. Al:   1.9     Fe:    72.0    Mn:    16.0     SiO2:  2.68

ID: 1D1-029   Name: (NO NAME)                         State: MA  Date: 06NOV84
Sample Type: REGULAR              Latitude: 41-54'15"N    Longitude: 70-51'30"W
Elevation:  108   Surface Temp: 10.3  Stratified: MIXED     Site Depth:   0.9
Lake Area:       8 Watershed Area:     62 WA/LA:     7.6 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  0.9   Turbidity:   0.4      Color:   60
Closed pH: 5.69        Equil. pH: 6.14              ANC:   27.3         DOC:  7.50
Closed DIC:  0.89   Equil. DIC:  0.23    Meas. Cond:  38.8   Cal. Cond:  40.8
Ca:   53.2          Mg:    57.4        Na:  199.8           K:  23.2       NH4:  0.8
SO4:   99.8       HCO3:    16.5       Cl:  174.6         NO3:   0.2          F:  3.1
Sum Cations:  336.2  Sum Anions:  294.3  Cations/Anions: 1.14   Tot. P:  59.0
Tot. Al:   68.8    Ext. Al:  26.7     Fe:   168.0    Mn:    49.0     SiO2:  2.26

ID: 1D1-030   Name: FRESH MEADOW POND                 State: MA  Date: 12NOV84
Sample Type: REGULAR              Latitude: 41-55'12"N    Longitude: 70-44'30"W
Elevation:  109   Surface Temp: 12.9  Stratified: MIXED     Site Depth:   1.0
Lake Area:      24 Watershed Area:    228 WA/LA:     9.4 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  1.7   Turbidity:   0.9      Color:   25
Closed pH: 7.14        Equil. pH: 7.48              ANC:  116.3         DOC:  1.70
Closed DIC:  1.50   Equil. DIC:  1.41    Meas. Cond:  72.4   Cal. Cond:  77.8
Ca:   95.8          Mg:   110.2        Na:  353.7           K:  24.0       NH4:  0.0
SO4:  140.7       HCO3:   104.2       Cl:  382.0         NO3:  22.3          F:  1.7
Sum Cations:  583.8  Sum Anions:  651.0  Cations/Anions: 0.90   Tot. P:  19.0
Tot. Al:   17.0    Ext. Al:   0.0     Fe:   150.0    Mn:     0.0     SiO2:  5.53

ID: 1D1-031   Name: KINGS POND                        State: MA  Date: 12NOV84
Sample Type: REGULAR              Latitude: 41-54'40"N    Longitude: 70-42'15"W
Elevation:  113   Surface Temp: 12.4  Stratified: MIXED     Site Depth:   1.7
Lake Area:       9 Watershed Area:     57 WA/LA:     6.3 Hydro Type: DRAINAGE
Residence Time:  0.22  Secchi Depth:  1.7   Turbidity:   0.3      Color:   15
Closed pH: 5.43        Equil. pH: 5.85              ANC:    5.5         DOC:  2.90
Closed DIC:  0.79   Equil. DIC:  0.16    Meas. Cond:  57.4   Cal. Cond:  67.9
Ca:   44.4          Mg:    55.1        Na:  326.7           K:  15.3       NH4:  1.1
SO4:  156.1       HCO3:     6.3       Cl:  401.7         NO3:   0.0          F:  0.7
Sum Cations:  446.3  Sum Anions:  564.9  Cations/Anions: 0.79   Tot. P:   0.0
Tot. Al:   30.0    Ext. Al:  17.0     Fe:    40.0    Mn:    10.0     SiO2:  0.01
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D1-033   Name: ISLAND POND                            State: MA  Date: 12NOV84
Sample Type: REGULAR              Latitude: 41-54'00"N   Longitude: 70-38'30"W
Elevation:   88   Surface Temp: 12.1  Stratified: MIXED     Site Depth:   3.9
Lake Area:      5 Watershed Area:      88 WA/LA:     17.6 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  2.7  Turbidity:   0.6     Color:    20
Closed pH: 5.83       Equil. pH: 6.32             ANC:   13.2        DOC:  2.50
Closed DIC:  0.55   Equil. DIC:  0.24   Meas. Cond:  46.8   Cal. Cond:  48.4
Ca:   37.4          Mg:    61.7        Na:  239.3          K:  21.2      NH4:  0.6
SO4:  103.5       HCO3:    10.9        Cl:  259.8        NO3:   1.5        F:  2.0
Sum Cations:  361.6  Sum Anions:  377.6  Cations/Anions: 0.96   Tot. P:  20.0
Tot. Al:    39.0    Ext. Al:   16.0    Fe:   130.0      Mn:     0.0    SiO2:  1.05

ID: 1D1-034   Name: ROCKY POND                             State: MA  Date: 12NOV84
Sample Type: REGULAR              Latitude: 41-53'10"N   Longitude: 70-41'45"W
Elevation:  107   Surface Temp: 12.3  Stratified: MIXED     Site Depth:   5.7
Lake Area:      8 Watershed Area:      54 WA/LA:      6.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  5.2  Turbidity:   0.3     Color:     5
Closed pH: 6.02       Equil. pH: 6.44             ANC:   11.7        DOC:  1.70
Closed DIC:  0.55   Equil. DIC:  0.32   Meas. Cond:  43.5   Cal. Cond:  45.3
Ca:   44.9          Mg:    67.5        Na:  211.0          K:  13.3      NH4:  0.6
SO4:  123.0       HCO3:    11.4        Cl:  217.5        NO3:   0.2        F:  1.0
Sum Cations:  338.4  Sum Anions:  353.2  Cations/Anions: 0.96   Tot. P:   2.0
Tot. Al:    10.0    Ext. Al:    2.0    Fe:    10.0      Mn:     0.0    SiO2:  0.90

ID: 1D1-035   Name: HALFWAY POND                           State: MA  Date: 12NOV84
Sample Type: REGULAR              Latitude: 41-51'15"N   Longitude: 70-37'15"W
Elevation:   63   Surface Temp: 11.6  Stratified: MIXED     Site Depth:   3.6
Lake Area:     87 Watershed Area:     275 WA/LA:      3.2 Hydro Type: DRAINAGE
Residence Time:  0.81  Secchi Depth:  3.4  Turbidity:   0.5     Color:     5
Closed pH: 6.84       Equil. pH: 6.99             ANC:   79.0        DOC:  0.90
Closed DIC:  1.25   Equil. DIC:  0.97   Meas. Cond:  44.9   Cal. Cond:  48.9
Ca:   61.9          Mg:    74.9        Na:  224.9          K:  12.5      NH4:  0.6
SO4:   99.1       HCO3:    75.6        Cl:  231.0        NO3:   0.0        F:  1.2
Sum Cations:  374.9  Sum Anions:  406.9  Cations/Anions: 0.92   Tot. P:  10.0
Tot. Al:     6.0    Ext. Al:    0.0    Fe:    30.0      Mn:     0.0    SiO2:  4.75

ID: 1D1-036   Name: CHARGE POND                            State: MA  Date: 07NOV84
Sample Type: REGULAR              Latitude: 41-49'00"N   Longitude: 70-40'30"W
Elevation:   66   Surface Temp: 11.4  Stratified: MIXED     Site Depth:   4.8
Lake Area:      7 Watershed Area:      88 WA/LA:     12.9 Hydro Type: DRAINAGE
Residence Time:  0.32  Secchi Depth:  4.8  Turbidity:   0.3     Color:     5
Closed pH: 6.16       Equil. pH: 6.42             ANC:   23.6        DOC:  1.38
Closed DIC:  0.45   Equil. DIC:  0.30   Meas. Cond:  36.8   Cal. Cond:  38.4
Ca:   32.0          Mg:    69.6        Na:  171.7          K:  13.7      NH4:  0.7
SO4:  116.6       HCO3:    17.8        Cl:  168.5        NO3:   0.0        F:  0.3
Sum Cations:  288.2  Sum Anions:  303.2  Cations/Anions: 0.95   Tot. P:  21.2
Tot. Al:    26.4    Ext. Al:    4.0    Fe:     0.0      Mn:     2.0    SiO2:  1.15

ID: 1D1-037   Name: EZEKIEL POND                           State: MA  Date: 07NOV84
Sample Type: REGULAR              Latitude: 41-48'15"N   Longitude: 70-36'45"W
Elevation:   47   Surface Temp: 11.5  Stratified: MIXED     Site Depth:   3.7
Lake Area:     14 Watershed Area:      49 WA/LA:      3.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.7  Turbidity:   0.6     Color:    10
Closed pH: 5.71       Equil. pH: 5.90             ANC:   10.4        DOC:  1.49
Closed DIC:  0.43   Equil. DIC:  0.19   Meas. Cond:  54.6   Cal. Cond:  55.9
Ca:   47.2          Mg:    64.2        Na:  286.9          K:  18.8      NH4:  0.8
SO4:  130.6       HCO3:     7.7        Cl:  293.2        NO3:   0.2        F:  0.8
Sum Cations:  419.7  Sum Anions:  432.5  Cations/Anions: 0.97   Tot. P:  11.6
Tot. Al:    40.9    Ext. Al:    6.8    Fe:    28.0      Mn:     8.0    SiO2:  0.61
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D1-038   Name: LITTLE HERRING POND              State: MA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-49'30"N   Longitude: 70-34'30"W
Elevation:   36   Surface Temp:  9.3  Stratified: MIXED     Site Depth:   0.9
Lake Area:     33 Watershed Area:     106 WA/LA:     3.3 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  0.9  Turbidity:  0.2     Color:    10
Closed pH: 6.75       Equil. pH: 7.21             ANC:  125.9       DOC:  1.06
Closed DIC:  1.95  Equil. DIC:  1.45   Meas. Cond:  51.2  Cal. Cond:  53.8
Ca:   56.3         Mg:   77.4      Na:  268.0      K:  17.3      NH4:   0.9
SO4:   99.1      HCO3:  121.0      Cl:  238.4    NO3:   0.0        F:   1.4
Sum Cations:  419.9  Sum Anions:  460.0  Cations/Anions: 0.91  Tot. P:  20.3
Tot. Al:   20.9    Ext. Al:   2.5    Fe:    9.0    Mn:    6.0   SiO2:  7.22

ID: 1D1-039   Name: FLAX POND                        State: MA  Date: 06NOV84
Sample Type: REGULAR             Latitude: 41-43'00"N   Longitude: 70-11'20"W
Elevation:   30   Surface Temp: 13.3  Stratified: MIXED     Site Depth:   5.2
Lake Area:      6 Watershed Area:      34 WA/LA:     5.6 Hydro Type: DRAINAGE
Residence Time:  0.74  Secchi Depth:  3.6  Turbidity:  0.3     Color:    10
Closed pH: 4.54       Equil. pH: 4.56             ANC:  -24.5       DOC:  0.17
Closed DIC:  0.29  Equil. DIC:  0.16   Meas. Cond:  79.5  Cal. Cond:  84.6
Ca:   57.7         Mg:   91.3      Na:  357.1      K:  17.6      NH4:   4.5
SO4:  194.2      HCO3:    0.4      Cl:  404.1    NO3:   7.6        F:   0.8
Sum Cations:  556.4  Sum Anions:  607.2  Cations/Anions: 0.92  Tot. P:   7.8
Tot. Al:  190.3    Ext. Al: 186.7    Fe:   40.0    Mn:   34.0   SiO2:  0.12

ID: 1D1-043   Name: SPECTACLE POND                   State: MA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-42'15"N   Longitude: 70-27'30"W
Elevation:   63   Surface Temp: 13.0  Stratified: MIXED     Site Depth:  12.8
Lake Area:     39 Watershed Area:     505 WA/LA:    13.1 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  4.0  Turbidity:  0.4     Color:    10
Closed pH: 6.99       Equil. pH: 7.30             ANC:  133.1       DOC:  1.86
Closed DIC:  1.76  Equil. DIC:  1.54   Meas. Cond:  62.0  Cal. Cond:  65.0
Ca:  147.3         Mg:   75.8      Na:  276.1      K:  10.4      NH4:   0.8
SO4:  127.8      HCO3:  120.5      Cl:  287.1    NO3:   0.0        F:   1.2
Sum Cations:  510.5  Sum Anions:  536.9  Cations/Anions: 0.95  Tot. P:  10.2
Tot. Al:   61.7    Ext. Al:   1.9    Fe:    0.0    Mn:    0.0   SiO2:  0.46

ID: 1D1-046   Name: ROBBINS POND                     State: MA  Date: 06NOV84
Sample Type: REGULAR             Latitude: 41-42'20"N   Longitude: 70-06'40"W
Elevation:   29   Surface Temp: 12.2  Stratified: MIXED     Site Depth:   3.0
Lake Area:     12 Watershed Area:      49 WA/LA:     4.3 Hydro Type: DRAINAGE
Residence Time:  0.54  Secchi Depth:  3.0  Turbidity:  0.3     Color:    10
Closed pH: 5.84       Equil. pH: 6.26             ANC:   19.1       DOC:  2.87
Closed DIC:  0.61  Equil. DIC:  0.28   Meas. Cond:  64.3  Cal. Cond:  66.6
Ca:   38.2         Mg:  102.0      Na:  351.5      K:  19.1      NH4:   1.9
SO4:  114.5      HCO3:   14.3      Cl:  383.5    NO3:   3.8        F:   1.2
Sum Cations:  513.8  Sum Anions:  517.3  Cations/Anions: 0.99  Tot. P:   9.5
Tot. Al:   23.9    Ext. Al:   5.8    Fe:   29.0    Mn:   11.0   SiO2:  0.13

ID: 1D1-049   Name: LANE POND                        State: CT  Date: 08NOV84
Sample Type: REGULAR             Latitude: 41-24'05"N   Longitude: 72-44'05"W
Elevation:  555   Surface Temp:  5.7  Stratified: MIXED     Site Depth:   0.8
Lake Area:      7 Watershed Area:     145 WA/LA:    19.9 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.8  Turbidity:  1.4     Color:    20
Closed pH: 7.22       Equil. pH: 7.64             ANC:  151.8       DOC:  4.50
Closed DIC:  1.79  Equil. DIC:  1.71   Meas. Cond:  47.6  Cal. Cond:  47.7
Ca:  168.2         Mg:  128.3      Na:   96.6      K:   9.2      NH4:   1.1
SO4:  178.2      HCO3:  130.7      Cl:   67.4    NO3:   0.0        F:   1.2
Sum Cations:  403.5  Sum Anions:  377.7  Cations/Anions: 1.07  Tot. P:  26.0
Tot. Al:   49.0    Ext. Al:   1.0    Fe:   60.0    Mn:    0.0   SiO2:  1.11
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D1-050   Name: FOSTERS POND                        State: CT  Date: 08NOV84
Sample Type: REGULAR              Latitude: 41-21'30"N    Longitude: 72-35'05"W
Elevation:  113   Surface Temp:  9.1  Stratified: MIXED      Site Depth:    2.5
Lake Area:      13 Watershed Area:   2419 WA/LA:    181.9 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  1.3   Turbidity:   1.3     Color:    85
Closed pH: 6.59       Equil. pH: 7.53               ANC:  140.3        DOC:  8.20
Closed DIC:  2.31   Equil. DIC:  1.45    Meas. Cond:  62.7   Cal. Cond:  64.0
Ca:  193.6          Mg:    93.8       Na:  202.7         K:  38.4      NH4:   1.1
SO4:  164.1       HCO3:  119.7       Cl:  205.1       NO3:    2.5         F:   1.9
Sum Cations:  529.8  Sum Anions:  493.3  Cations/Anions: 1.07   Tot. P:  15.0
Tot. Al:  102.0    Ext. Al:  13.0     Fe:  330.0      Mn:    30.0    SiO2: 10.20


ID: 1D1-052   Name: STREETER POND                       State: MA  Date: 12NOV84
Sample Type: REGULAR              Latitude: 42-20'11"N    Longitude: 71-54'33"W
Elevation: 1039   Surface Temp: 10.4  Stratified: MIXED      Site Depth:    1.2
Lake Area:       7 Watershed Area:    174 WA/LA:     24.2 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  1.5   Turbidity:   0.4     Color:    15
Closed pH: 6.72       Equil. pH: 7.17               ANC:  112.4        DOC:  3.85
Closed DIC:  1.61   Equil. DIC:  1.31    Meas. Cond:  47.3   Cal. Cond:  47.2
Ca:  127.2          Mg:    46.1       Na:  188.4         K:  27.6      NH4:   0.8
SO4:   98.4       HCO3:   93.6       Cl:  175.7       NO3:    0.4         F:   1.8
Sum Cations:  390.3  Sum Anions:  370.0  Cations/Anions: 1.05   Tot. P:  10.5
Tot. Al:   25.5    Ext. Al:   5.5     Fe:   45.0      Mn:     0.0    SiO2:  0.51


ID: 1D1-054   Name: UPPER MILLPOND                      State: MA  Date: 06NOV84
Sample Type: REGULAR              Latitude: 41-43'51"N    Longitude: 70-07'00"W
Elevation:   26   Surface Temp: 13.2  Stratified: MIXED      Site Depth:    8.5
Lake Area:     101 Watershed Area:    526 WA/LA:      5.2 Hydro Type: RESERVOIR
Residence Time:  1.28  Secchi Depth:  1.3   Turbidity:   2.4     Color:    25
Closed pH: 6.73       Equil. pH: 6.96               ANC:   69.4        DOC:  2.42
Closed DIC:  1.04   Equil. DIC:  0.82    Meas. Cond:  74.2   Cal. Cond:  80.5
Ca:   86.7          Mg:   116.8       Na:  402.8         K:  17.3      NH4:   6.1
SO4:  141.9       HCO3:   48.0       Cl:  438.7       NO3:    1.8         F:   1.8
Sum Cations:  630.0  Sum Anions:  632.2  Cations/Anions: 1.00   Tot. P:  38.0
Tot. Al:    8.4    Ext. Al:   1.3     Fe:   45.0      Mn:     2.0    SiO2:  1.39


ID: 1D1-055   Name: BORDEN BROOK RESERVOIR              State: MA  Date: 08NOV84
Sample Type: REGULAR              Latitude: 42-07'47"N    Longitude: 72-56'45"W
Elevation:  326   Surface Temp: 10.1  Stratified: MIXED      Site Depth:   11.0
Lake Area:      83 Watershed Area:   2064 WA/LA:     25.0 Hydro Type: RESERVOIR
Residence Time:  0.32  Secchi Depth:  2.1   Turbidity:   2.6     Color:    40
Closed pH: 6.36       Equil. pH: 7.21               ANC:   47.2        DOC:  3.40
Closed DIC:  1.16   Equil. DIC:  0.69    Meas. Cond:  28.0   Cal. Cond:  31.6
Ca:  103.8          Mg:    50.2       Na:   55.2         K:  10.0      NH4:   4.4
SO4:  165.3       HCO3:   44.2       Cl:   43.4       NO3:    1.7         F:   3.7
Sum Cations:  224.0  Sum Anions:  258.4  Cations/Anions: 0.87   Tot. P:  10.0
Tot. Al:  106.0    Ext. Al:   9.0     Fe:  410.0      Mn:   130.0    SiO2:  3.66


ID: 1D1-056   Name: LITTLE WEST POND                    State: MA  Date: 12NOV84
Sample Type: REGULAR              Latitude: 41-55'17"N    Longitude: 70-42'24"W
Elevation:   36   Surface Temp: 12.1  Stratified: MIXED      Site Depth:    5.1
Lake Area:      10 Watershed Area:     49 WA/LA:      4.9 Hydro Type: DRAINAGE
Residence Time:  0.81  Secchi Depth:  4.9   Turbidity:   0.3     Color:    10
Closed pH: 5.73       Equil. pH: 5.89               ANC:    4.1        DOC:  2.30
Closed DIC:  0.25   Equil. DIC:  0.22    Meas. Cond:  47.7   Cal. Cond:  49.8
Ca:   47.9          Mg:    67.5       Na:  228.4         K:  17.4      NH4:   0.0
SO4:  114.9       HCO3:    5.0       Cl:  265.2       NO3:    2.1         F:   1.2
Sum Cations:  363.4  Sum Anions:  388.4  Cations/Anions: 0.94   Tot. P:   0.0
Tot. Al:   16.0    Ext. Al:   7.0     Fe:   10.0      Mn:     0.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D1-058   Name: GRIGGS POND                        State: CT  Date: 13NOV84
Sample Type: REGULAR             Latitude: 42-00'07"N    Longitude: 72-05'14"W
Elevation:  727  Surface Temp:  7.9  Stratified: MIXED      Site Depth:   0.9
Lake Area:      15 Watershed Area:    500 WA/LA:     34.3 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  0.9   Turbidity:   0.5      Color:    70
Closed pH: 6.46        Equil. pH: 7.45             ANC:  208.8          DOC:  9.60
Closed DIC:  3.68   Equil. DIC:  2.07     Meas. Cond:  39.8   Cal. Cond:  40.3
Ca:  186.1          Mg:   91.3       Na:   89.2        K:  14.3         NH4:  0.0
SO4:   69.3       HCO3:  169.5       Cl:   73.3      NO3:   0.5           F:  1.1
Sum Cations:  381.2  Sum Anions:  313.8  Cations/Anions: 1.21   Tot. P:  18.0
Tot. Al:    33.0    Ext. Al:  23.0     Fe:  150.0      Mn:    20.0     SiO2:  3.34

ID: 1D1-059   Name: LARKIN POND                        State: RI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 41-28'12"N    Longitude: 71-33'30"W
Elevation:   95  Surface Temp: 13.1  Stratified: MIXED      Site Depth:   8.8
Lake Area:      17 Watershed Area:     34 WA/LA:      2.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.5   Turbidity:   0.6      Color:    15
Closed pH: 7.00        Equil. pH: 7.57             ANC:  252.8          DOC:  2.63
Closed DIC:  3.27   Equil. DIC:  2.78     Meas. Cond:  77.7   Cal. Cond:  82.0
Ca:  187.3          Mg:  109.4       Na:  346.3        K:  26.2         NH4:  3.2
SO4:  106.5       HCO3:  228.5       Cl:  331.8      NO3:   0.4           F: 26.0
Sum Cations:  672.5  Sum Anions:  693.4  Cations/Anions: 0.97   Tot. P:   7.5
Tot. Al:    17.9    Ext. Al:   1.4     Fe:  103.0      Mn:    24.0     SiO2:  2.12

ID: 1D1-060   Name: WHITE POND                         State: MA  Date: 06NOV84
Sample Type: REGULAR             Latitude: 41-42'07"N    Longitude: 70-08'02"W
Elevation:   27  Surface Temp: 13.2  Stratified: MIXED      Site Depth:   5.5
Lake Area:       4 Watershed Area:     26 WA/LA:      6.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.1   Turbidity:   0.5      Color:     5
Closed pH: 6.47        Equil. pH: 6.78             ANC:   38.6          DOC:  1.77
Closed DIC:  0.66   Equil. DIC:  0.51     Meas. Cond:  62.1   Cal. Cond:  67.7
Ca:   68.3          Mg:   99.5       Na:  335.8        K:  14.7         NH4:  1.2
SO4:  116.3       HCO3:   33.4       Cl:  385.2      NO3:   0.3           F:  0.6
Sum Cations:  519.9  Sum Anions:  535.8  Cations/Anions: 0.97   Tot. P:   7.8
Tot. Al:    35.0    Ext. Al:   0.6     Fe:    7.0      Mn:     8.0     SiO2:  0.37

ID: 1D1-061   Name: ROUND POND                         State: MA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-51'08"N    Longitude: 70-36'17"W
Elevation:   64  Surface Temp: 12.4  Stratified: MIXED      Site Depth:   7.3
Lake Area:       8 Watershed Area:     39 WA/LA:      4.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.9   Turbidity:   0.7      Color:    10
Closed pH: 5.78        Equil. pH: 6.06             ANC:   12.2          DOC:  1.27
Closed DIC:  0.51   Equil. DIC:  0.21     Meas. Cond:  47.1   Cal. Cond:  48.6
Ca:   40.9          Mg:   60.0       Na:  243.3        K:  13.9         NH4:  0.8
SO4:  127.5       HCO3:    8.7       Cl:  244.9      NO3:   0.0           F:  0.7
Sum Cations:  360.1  Sum Anions:  381.9  Cations/Anions: 0.94   Tot. P:   7.2
Tot. Al:    34.9    Ext. Al:   3.4     Fe:   31.0      Mn:    12.0     SiO2:  0.18

ID: 1D1-062   Name: SANTUIT POND                       State: MA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-39'14"N    Longitude: 70-27'30"W
Elevation:   43  Surface Temp: 11.0  Stratified: MIXED      Site Depth:   1.5
Lake Area:      66 Watershed Area:    254 WA/LA:      3.8 Hydro Type: RESERVOIR
Residence Time:  0.29  Secchi Depth:  1.5   Turbidity:   0.4      Color:    20
Closed pH: 7.04        Equil. pH: 7.32             ANC:  150.6          DOC:  2.00
Closed DIC:  1.78   Equil. DIC:  1.73     Meas. Cond:  71.6   Cal. Cond:  74.6
Ca:   82.9          Mg:  113.5       Na:  371.5        K:  22.8         NH4:  0.8
SO4:  118.0       HCO3:  140.4       Cl:  360.3      NO3:   0.0           F:  1.5
Sum Cations:  591.6  Sum Anions:  620.4  Cations/Anions: 0.95   Tot. P:  17.0
Tot. Al:    12.9    Ext. Al:   2.3     Fe:   58.0      Mn:     4.0     SiO2:  0.75
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D1-064   Name: SNOW POND                          State: MA  Date: 08NOV84
Sample Type: REGULAR           Latitude: 42-26'54"N   Longitude: 71-50'50"W
Elevation:  655   Surface Temp:  6.7  Stratified: MIXED     Site Depth:   1.6
Lake Area:      7 Watershed Area:     150 WA/LA:     23.1 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.6  Turbidity:   0.3     Color:   20
Closed pH: 6.08       Equil. pH: 6.82           ANC:   13.3        DOC:  2.90
Closed DIC:  0.83  Equil. DIC:  0.41   Meas. Cond:  67.9   Cal. Cond:  69.6
Ca:  106.3         Mg:   35.4      Na:  373.7       K:  14.6       NH4:  0.0
SO4:  109.3       HCO3:   22.6      Cl:  410.7       NO3:   0.3         F:  3.4
Sum Cations:  530.8  Sum Anions:  546.3  Cations/Anions: 0.97   Tot. P:   7.0
Tot. Al:   35.0    Ext. Al:  16.0    Fe:   30.0     Mn:    0.0    SiO2:  0.60

ID: 1D1-065   Name: ASHVILLE POND                      State: RI  Date: 04NOV84
Sample Type: REGULAR           Latitude: 41-30'03"N   Longitude: 71-45'23"W
Elevation:  158   Surface Temp: 12.5  Stratified: MIXED     Site Depth:   3.0
Lake Area:     10 Watershed Area:      67 WA/LA:      6.4 Hydro Type: DRAINAGE
Residence Time:  0.37  Secchi Depth:  3.0  Turbidity:   0.2     Color:   10
Closed pH: 5.05       Equil. pH: 5.08           ANC:   -5.3        DOC:  2.03
Closed DIC:  0.40  Equil. DIC:  0.18   Meas. Cond:  29.5   Cal. Cond:  29.5
Ca:   39.0         Mg:   29.9      Na:  112.0       K:   4.7       NH4:  0.8
SO4:  113.0       HCO3:    1.8      Cl:   92.2       NO3:   0.1         F:  2.7
Sum Cations:  195.6  Sum Anions:  209.8  Cations/Anions: 0.93   Tot. P:   3.5
Tot. Al:   76.4    Ext. Al:  29.3    Fe:   28.0     Mn:   55.0    SiO2:  0.57

ID: 1D1-066   Name: LAKE MISHNOCK                      State: RI  Date: 04NOV84
Sample Type: REGULAR           Latitude: 41-39'14"N   Longitude: 71-35'29"W
Elevation:  251   Surface Temp: 11.2  Stratified: MIXED     Site Depth:   4.0
Lake Area:     19 Watershed Area:      52 WA/LA:      2.7 Hydro Type: DRAINAGE
Residence Time:  1.02  Secchi Depth:  4.0  Turbidity:   0.5     Color:   15
Closed pH: 6.70       Equil. pH: 7.54           ANC:  244.8        DOC:  1.52
Closed DIC:  3.87  Equil. DIC:  2.70   Meas. Cond: 182.1   Cal. Cond: 197.8
Ca:  360.6         Mg:  119.3      Na: 1010.9       K:  38.1       NH4:  5.5
SO4:  161.6       HCO3:  248.9      Cl: 1188.1       NO3:  17.4         F:  3.7
Sum Cations: 1534.5  Sum Anions: 1620.1  Cations/Anions: 0.95   Tot. P:   5.5
Tot. Al:   22.5    Ext. Al:   2.4    Fe:   81.0     Mn:   45.0    SiO2:  6.91

ID: 1D1-067   Name: ROUND POND                         State: RI  Date: 08NOV84
Sample Type: REGULAR           Latitude: 41-58'17"N   Longitude: 71-46'20"W
Elevation:  653   Surface Temp:  8.6  Stratified: MIXED     Site Depth:   6.7
Lake Area:      6 Watershed Area:      49 WA/LA:      7.9 Hydro Type: DRAINAGE
Residence Time:  0.70  Secchi Depth:  1.4  Turbidity:   0.8     Color:   40
Closed pH: 5.24       Equil. pH: 5.59           ANC:  -11.4        DOC:  4.50
Closed DIC:  1.15  Equil. DIC:  0.17   Meas. Cond:  43.4   Cal. Cond:  44.3
Ca:   62.4         Mg:   33.7      Na:  207.5       K:  16.6       NH4:  0.0
SO4:  131.6       HCO3:    6.4      Cl:  180.5       NO3:   0.2         F: 16.3
Sum Cations:  325.0  Sum Anions:  335.0  Cations/Anions: 0.97   Tot. P:  14.0
Tot. Al:  241.0    Ext. Al:  79.0    Fe:  200.0     Mn:   40.0    SiO2:  3.60

ID: 1D1-068   Name: LITTLE SANDY POND                  State: MA  Date: 07NOV84
Sample Type: REGULAR           Latitude: 41-47'47"N   Longitude: 70-36'13"W
Elevation:   46   Surface Temp: 11.1  Stratified: MIXED     Site Depth:   4.0
Lake Area:     12 Watershed Area:      26 WA/LA:      2.2 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  4.0  Turbidity:   0.2     Color:   10
Closed pH: 4.82       Equil. pH: 4.81           ANC:   -8.4        DOC:  1.12
Closed DIC:  0.34  Equil. DIC:  0.15   Meas. Cond:  52.8   Cal. Cond:  53.8
Ca:   33.0         Mg:   55.2      Na:  237.6       K:  17.3       NH4:  8.7
SO4:  116.1       HCO3:    0.7      Cl:  263.3       NO3:   4.6         F:  0.7
Sum Cations:  367.0  Sum Anions:  385.5  Cations/Anions: 0.95   Tot. P:  13.9
Tot. Al:   75.3    Ext. Al:  44.5    Fe:   30.0     Mn:   36.0    SiO2:  0.28
```

(continued)

TABLE 3-1 (continued)

```
ID: 102-003   Name: BOONS POND                          State: MA  Date: 04NOV84
Sample Type: REGULAR            Latitude: 42-24'12"N    Longitude: 71-30'08"W
Elevation:   57  Surface Temp: 12.1  Stratified: MIXED      Site Depth:   6.0
Lake Area:      69 Watershed Area:     306 WA/LA:     4.5 Hydro Type: DRAINAGE
Residence Time:  1.02  Secchi Depth:  1.8   Turbidity:   1.2     Color:    20
Closed pH: 6.68        Equil. pH: 7.23              ANC:  223.4         DOC:  2.54
Closed DIC:  3.56   Equil. DIC:  2.69    Meas. Cond:  97.9   Cal. Cond: 103.5
Ca:  195.2          Mg:    71.2        Na:  536.4         K:  28.4       NH4: 10.3
SO4:  107.3       HCO3:  213.2       Cl:  525.4        NO3:   1.3          F:  2.3
Sum Cations:  841.6  Sum Anions:  849.7  Cations/Anions: 0.99   Tot. P:  15.6
Tot. Al:   18.7    Ext. Al:    1.4    Fe:   25.0       Mn:    13.0    SiO2:  2.09

ID: 102-005   Name: GREENWOOD POND                      State: MA  Date: 08NOV84
Sample Type: REGULAR            Latitude: 42-33'15"N    Longitude: 71-57'15"W
Elevation: 1095  Surface Temp:  5.6  Stratified: MIXED      Site Depth:   1.4
Lake Area:      11 Watershed Area:      80 WA/LA:     7.0 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  1.4   Turbidity:   0.6     Color:    35
Closed pH: 6.44        Equil. pH: 7.24              ANC:   75.5         DOC:  6.70
Closed DIC:  1.34   Equil. DIC:  0.76    Meas. Cond: 155.3   Cal. Cond: 164.7
Ca:  150.2          Mg:    54.3        Na: 1053.1         K:  23.0       NH4:  0.0
SO4:  115.6       HCO3:    54.8       Cl: 1132.6        NO3:   0.1          F:  2.8
Sum Cations: 1281.1  Sum Anions: 1305.8  Cations/Anions: 0.98   Tot. P:  13.0
Tot. Al:   70.0    Ext. Al:   27.0    Fe:  120.0       Mn:    20.0    SiO2:  1.68

ID: 102-006   Name: AMES POND                           State: MA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 42-29'52"N    Longitude: 72-25'09"W
Elevation:  271  Surface Temp:  8.6  Stratified: MIXED      Site Depth:   1.5
Lake Area:       6 Watershed Area:     145 WA/LA:    22.7 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  1.0   Turbidity:   0.5     Color:    70
Closed pH: 5.73        Equil. pH: 6.26              ANC:   32.3         DOC:  8.87
Closed DIC:  1.02   Equil. DIC:  0.26    Meas. Cond:  19.4   Cal. Cond:  17.8
Ca:   40.5          Mg:    18.3        Na:   84.4         K:  16.2       NH4:  1.3
SO4:   58.8       HCO3:    12.4       Cl:   38.4        NO3:   0.0          F:  2.6
Sum Cations:  162.5  Sum Anions:  112.2  Cations/Anions: 1.45   Tot. P:   4.1
Tot. Al:   83.7    Ext. Al:   14.4    Fe:   88.0       Mn:    20.0    SiO2:  4.84

ID: 102-009   Name: SIBLEY PONDS (NORTHERN)             State: MA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 42-09'00"N    Longitude: 72-00'37"W
Elevation:  675  Surface Temp: 11.0  Stratified: MIXED      Site Depth:   2.7
Lake Area:       8 Watershed Area:     565 WA/LA:    72.4 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.2   Turbidity:   6.0     Color:    70
Closed pH: 6.84        Equil. pH: 7.73              ANC:  343.7         DOC:  6.81
Closed DIC:  4.92   Equil. DIC:  3.59    Meas. Cond: 179.4   Cal. Cond: 195.0
Ca:  377.7          Mg:   133.3        Na:  966.6         K:  53.2       NH4:  7.5
SO4:  145.1       HCO3:   274.7       Cl: 1159.8        NO3:   0.8          F:  3.6
Sum Cations: 1538.5  Sum Anions: 1584.1  Cations/Anions: 0.97   Tot. P:  89.1
Tot. Al:  136.5    Ext. Al:    1.9    Fe:  134.0       Mn:   192.0    SiO2:  1.08

ID: 102-010   Name: GORE POND                           State: MA  Date: 08NOV84
Sample Type: REGULAR            Latitude: 42-05'00"N    Longitude: 71-57'00"W
Elevation:  694  Surface Temp:  9.2  Stratified: MIXED      Site Depth:   6.1
Lake Area:      69 Watershed Area:     539 WA/LA:     7.8 Hydro Type: DRAINAGE
Residence Time:  0.54  Secchi Depth:  1.9   Turbidity:   0.6     Color:    45
Closed pH: 6.63        Equil. pH: 7.35              ANC:  125.8         DOC:  6.40
Closed DIC:  1.69   Equil. DIC:  1.18    Meas. Cond:  45.6   Cal. Cond:  45.7
Ca:  161.7          Mg:    87.2        Na:  104.8         K:  45.0       NH4:  0.0
SO4:  128.0       HCO3:    89.6       Cl:  109.7        NO3:   0.9          F:  2.1
Sum Cations:  398.9  Sum Anions:  330.4  Cations/Anions: 1.21   Tot. P:  11.0
Tot. Al:   64.0    Ext. Al:   22.0    Fe:   70.0       Mn:     0.0    SiO2:  0.87
```

(continued)

TABLE 3-1 (continued)

```
ID: 102-012   Name: GOOSE POND                        State: MA  Date: 07NOV84
Sample Type: REGULAR            Latitude: 42-17'00"N   Longitude: 73-12'00"W
Elevation: 1483   Surface Temp:  8.6  Stratified: MIXED      Site Depth:   1.8
Lake Area:      98 Watershed Area:    1044 WA/LA:    10.6 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  1.8  Turbidity:   0.6     Color:    10
Closed pH: 7.26       Equil. pH: 7.68              ANC:  313.2        DOC:  2.46
Closed DIC:  3.76   Equil. DIC:  3.09   Meas. Cond:  49.7   Cal. Cond:  52.8
Ca:  251.4          Mg:  152.2         Na:    48.2        K:  14.6       NH4:  0.9
SO4:  140.0       HCO3:  276.0         Cl:   33.1       NO3:   0.1         F:  2.8
Sum Cations:  467.3  Sum Anions:  452.6  Cations/Anions: 1.03   Tot. P:   4.9
Tot. Al:   35.4    Ext. Al:    3.0    Fe:    33.0     Mn:    34.0    SiO2:  0.85

ID: 102-013   Name: BENEDICT POND                     State: MA  Date: 07NOV84
Sample Type: REGULAR            Latitude: 42-12'15"N   Longitude: 73-17'15"W
Elevation: 1582   Surface Temp:  6.8  Stratified: MIXED      Site Depth:   1.8
Lake Area:      14 Watershed Area:     194 WA/LA:    13.8 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  2.0  Turbidity:   0.6     Color:    25
Closed pH: 6.93       Equil. pH: 7.49              ANC:  174.6        DOC:  4.21
Closed DIC:  2.31   Equil. DIC:  1.76   Meas. Cond:  31.5   Cal. Cond:  32.9
Ca:  132.0          Mg:   91.1         Na:    39.6        K:  19.4       NH4:  3.2
SO4:   93.5       HCO3:  164.8         Cl:   19.2       NO3:   0.9         F:  3.6
Sum Cations:  285.3  Sum Anions:  282.3  Cations/Anions: 1.01   Tot. P:  10.7
Tot. Al:   39.3    Ext. Al:    3.6    Fe:    83.0     Mn:    11.0    SiO2:  0.71

ID: 102-015   Name: MASSAPOAG LAKE                    State: MA  Date: 04NOV84
Sample Type: REGULAR            Latitude: 42-06'15"N   Longitude: 71-10'30"W
Elevation:  251   Surface Temp: 12.4  Stratified: MIXED      Site Depth:  11.3
Lake Area:     148 Watershed Area:     909 WA/LA:     6.1 Hydro Type: DRAINAGE
Residence Time:  1.47  Secchi Depth:  2.8  Turbidity:   1.0     Color:    25
Closed pH: 7.17       Equil. pH: 7.43              ANC:  191.9        DOC:  4.22
Closed DIC:  2.19   Equil. DIC:  2.12   Meas. Cond:  81.0   Cal. Cond:  86.9
Ca:  218.4          Mg:  112.7         Na:  338.4         K:  31.2       NH4:  1.2
SO4:  191.2       HCO3:  171.6         Cl:  323.5       NO3:   0.2         F: 16.1
Sum Cations:  702.1  Sum Anions:  702.9  Cations/Anions: 1.00   Tot. P:  12.9
Tot. Al:   18.3    Ext. Al:    1.6    Fe:    10.0     Mn:    10.0    SiO2:  2.20

ID: 102-017   Name: MAQUAN POND                       State: MA  Date: 13NOV84
Sample Type: REGULAR            Latitude: 42-03'45"N   Longitude: 70-51-10"W
Elevation:   74   Surface Temp: 10.9  Stratified: MIXED      Site Depth:   2.4
Lake Area:      18 Watershed Area:      78 WA/LA:     4.3 Hydro Type: DRAINAGE
Residence Time:  0.42  Secchi Depth:  2.8  Turbidity:   0.4     Color:     5
Closed pH: 6.51       Equil. pH: 6.74              ANC:   25.5        DOC:  3.00
Closed DIC:  0.57   Equil. DIC:  0.47   Meas. Cond:  96.4   Cal. Cond: 104.9
Ca:  116.3          Mg:  111.1         Na:  504.2         K:  17.6       NH4:  0.0
SO4:  173.2       HCO3:   22.6         Cl:  659.5       NO3:   0.0         F:  1.8
Sum Cations:  749.8  Sum Anions:  857.3  Cations/Anions: 0.87   Tot. P:  10.0
Tot. Al:   20.0    Ext. Al:    6.0    Fe:    10.0     Mn:     0.0    SiO2:  0.44

ID: 102-023   Name: FORGE POND                        State: MA  Date: 12NOV84
Sample Type: REGULAR            Latitude: 41-55'05"N   Longitude: 70-36'40"W
Elevation:    8   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   1.0
Lake Area:       6 Watershed Area:    1831 WA/LA:   321.2 Hydro Type: RESERVOIR
Residence Time:  0.00  Secchi Depth:  1.0  Turbidity:   0.6     Color:    20
Closed pH: 6.56       Equil. pH: 7.06              ANC:   74.2        DOC:  1.70
Closed DIC:  1.28   Equil. DIC:  0.89   Meas. Cond:  66.6   Cal. Cond:  69.6
Ca:   71.4          Mg:  101.2         Na:  348.0         K:  16.4       NH4:  1.1
SO4:   94.1       HCO3:   63.5         Cl:  398.3       NO3:   5.9         F:  1.0
Sum Cations:  538.3  Sum Anions:  562.8  Cations/Anions: 0.96   Tot. P:  13.0
Tot. Al:   17.0    Ext. Al:    5.0    Fe:   180.0     Mn:    10.0    SiO2:  6.44
```

(continued)

TABLE 3-1 (continued)

```
ID: 102-024   Name: THE RESERVOIR                      State: MA  Date: 06NOV84
Sample Type: REGULAR              Latitude: 41-51'45"N    Longitude: 70-56'30"W
Elevation:    78   Surface Temp: 11.0  Stratified: MIXED       Site Depth:   0.9
Lake Area:        9 Watershed Area:      36 WA/LA:      3.9 Hydro Type: RESERVOIR
Residence Time:  0.17  Secchi Depth:  0.9   Turbidity:    1.5      Color:    20
Closed pH: 7.21        Equil. pH: 7.72               ANC:  337.0         DOC:  3.50
Closed DIC:  4.15   Equil. DIC:  3.81    Meas. Cond: 132.4   Cal. Cond: 143.1
Ca:  296.6           Mg:  181.0         Na:  599.0         K:  49.3       NH4:   5.0
SO4:  235.6        HCO3:  314.0       Cl:  637.8         NO3:   2.5          F:   2.5
Sum Cations: 1131.0  Sum Anions: 1192.8  Cations/Anions: 0.95   Tot. P:  23.4
Tot. Al:    33.4    Ext. Al:    1.3    Fe:   100.0       Mn:     16.0     SiO2:  0.74

ID: 102-025   Name: LITTLE QUITTACAS POND              State: MA  Date: 06NOV84
Sample Type: REGULAR              Latitude: 41-47'30"N    Longitude: 70-55'00"W
Elevation:    17   Surface Temp: 11.9  Stratified: MIXED       Site Depth:   3.0
Lake Area:      119 Watershed Area:     404 WA/LA:      3.4 Hydro Type: DRAINAGE
Residence Time:  0.64  Secchi Depth:  3.0   Turbidity:    1.3      Color:    25
Closed pH: 6.69        Equil. pH: 7.08               ANC:   79.0         DOC:  4.48
Closed DIC:  1.14   Equil. DIC:  0.89    Meas. Cond:  68.6   Cal. Cond:  71.3
Ca:  132.6           Mg:   85.0         Na:  336.3         K:  16.3       NH4:   1.2
SO4:  132.2        HCO3:   66.4       Cl:  353.4         NO3:   0.7          F:   2.3
Sum Cations:  571.6  Sum Anions:  555.0  Cations/Anions: 1.03   Tot. P:  15.0
Tot. Al:    46.0    Ext. Al:    4.4    Fe:    81.0       Mn:     14.0     SiO2:  3.14

ID: 102-027   Name: SANDY POND                         State: MA  Date: 07NOV84
Sample Type: REGULAR              Latitude: 41-46'20"N    Longitude: 70-39'15"W
Elevation:    17   Surface Temp: 11.4  Stratified: MIXED       Site Depth:   3.0
Lake Area:        6 Watershed Area:      88 WA/LA:     14.2 Hydro Type: DRAINAGE
Residence Time:  0.18  Secchi Depth:  1.5   Turbidity:    0.9      Color:    65
Closed pH: 5.04        Equil. pH: 5.08               ANC:    3.7         DOC:  4.30
Closed DIC:  0.82   Equil. DIC:  0.12    Meas. Cond:  47.4   Cal. Cond:  48.8
Ca:   32.0           Mg:   75.1         Na:  217.7         K:  17.2       NH4:   2.4
SO4:  121.6        HCO3:    2.6       Cl:  237.0         NO3:   0.8          F:   0.7
Sum Cations:  351.8  Sum Anions:  362.7  Cations/Anions: 0.97   Tot. P:  10.5
Tot. Al:   124.3    Ext. Al:   32.5    Fe:   226.0       Mn:     33.0     SiO2:  2.15

ID: 102-029   Name: FLAX POND                          State: MA  Date: 07NOV84
Sample Type: REGULAR              Latitude: 41-41'20"N    Longitude: 70-35'45"W
Elevation:    36   Surface Temp: 11.1  Stratified: MIXED       Site Depth:   1.8
Lake Area:        8 Watershed Area:      34 WA/LA:      4.1 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.0   Turbidity:    2.5      Color:    30
Closed pH: 7.40        Equil. pH: 6.97               ANC:   87.7         DOC:  7.05
Closed DIC:  0.81   Equil. DIC:  0.84    Meas. Cond: 185.0   Cal. Cond: 196.8
Ca:  119.5           Mg:  108.6         Na: 1223.2         K:  38.3       NH4:   0.9
SO4:  170.7        HCO3:   73.9       Cl: 1344.9         NO3:   0.6          F:   1.5
Sum Cations: 1490.8  Sum Anions: 1591.6  Cations/Anions: 0.94   Tot. P:  20.5
Tot. Al:    51.2    Ext. Al:    3.6    Fe:     0.0       Mn:      5.0     SiO2:  0.22

ID: 102-030   Name: SHALLOW POND                       State: MA  Date: 07NOV84
Sample Type: REGULAR              Latitude: 41-40'30"N    Longitude: 70-19'30"W
Elevation:    34   Surface Temp: 11.0  Stratified: MIXED       Site Depth:   1.5
Lake Area:       31 Watershed Area:     114 WA/LA:      3.7 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.5   Turbidity:    0.4      Color:    20
Closed pH: 6.34        Equil. pH: 6.93               ANC:   64.9         DOC:  3.40
Closed DIC:  1.11   Equil. DIC:  0.70    Meas. Cond:  87.7   Cal. Cond:  92.4
Ca:   55.6           Mg:  125.0         Na:  469.4         K:  23.8       NH4:  29.7
SO4:  149.2        HCO3:   56.1       Cl:  516.5         NO3:  14.2          F:   0.9
Sum Cations:  703.7  Sum Anions:  736.9  Cations/Anions: 0.95   Tot. P:   8.3
Tot. Al:    41.7    Ext. Al:    4.4    Fe:    49.0       Mn:     14.0     SiO2:  0.52
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D2-031   Name: PLASHES POND                          State: MA  Date: 07NOV84
Sample Type: REGULAR           Latitude: 41-40'15"N    Longitude: 70-13'15"W
Elevation:    15   Surface Temp: 10.3  Stratified: MIXED     Site Depth:    0.9
Lake Area:      19 Watershed Area:     269 WA/LA:      14.1 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  0.9   Turbidity:   0.4      Color:    70
Closed pH: 6.49        Equil. pH: 7.00               ANC:    90.2         DOC:  7.02
Closed DIC:  1.32   Equil. DIC:  0.84    Meas. Cond: 121.0   Cal. Cond: 128.6
Ca:   71.3           Mg:  140.3       Na:  751.2         K:  42.2        NH4:   3.5
SO4:  145.8        HCO3:   69.0       Cl:  785.1       NO3:  16.4          F:   1.1
Sum Cations: 1008.6  Sum Anions: 1017.5  Cations/Anions: 0.99   Tot. P:  17.3
Tot. Al:   47.7    Ext. Al:   8.0    Fe:   66.5      Mn:     4.5     SiO2:  1.26


ID: 1D2-034   Name: WINGS POND                            State: MA  Date: 07NOV84
Sample Type: REGULAR           Latitude: 41-37'36"N    Longitude: 70-37'35"W
Elevation:     9   Surface Temp: 11.8  Stratified: MIXED     Site Depth:    6.0
Lake Area:      11 Watershed Area:     117 WA/LA:      10.8 Hydro Type: DRAINAGE
Residence Time:  0.47  Secchi Depth:  2.8   Turbidity:   1.1      Color:    30
Closed pH: 6.68        Equil. pH: 7.40               ANC:   188.8         DOC:  2.75
Closed DIC:  3.05   Equil. DIC:  2.16    Meas. Cond: 122.3   Cal. Cond: 128.0
Ca:  168.5           Mg:  157.1       Na:  652.1         K:  31.0        NH4:   3.8
SO4:  119.8        HCO3:  177.7       Cl:  744.4       NO3:   0.8          F:   1.5
Sum Cations: 1012.6  Sum Anions: 1044.3  Cations/Anions: 0.97   Tot. P:  55.5
Tot. Al:   36.7    Ext. Al:   2.7    Fe:  445.0      Mn:    14.0     SiO2:  6.12


ID: 1D2-036   Name: MICAH POND                            State: MA  Date: 07NOV84
Sample Type: REGULAR           Latitude: 41-38'20"N    Longitude: 70-22'45"W
Elevation:    12   Surface Temp: 13.1  Stratified: MIXED     Site Depth:   12.1
Lake Area:       6 Watershed Area:      26 WA/LA:       4.3 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  6.4   Turbidity:   0.4      Color:     5
Closed pH: 5.27        Equil. pH: 5.45               ANC:     5.7         DOC:  1.50
Closed DIC:  0.72   Equil. DIC:  0.16    Meas. Cond:  58.7   Cal. Cond:  62.0
Ca:   48.3           Mg:   80.8       Na:  294.9         K:  14.7        NH4:   2.2
SO4:  123.9        HCO3:    3.1       Cl:  359.5       NO3:   0.1          F:   0.8
Sum Cations:  444.5  Sum Anions:  487.3  Cations/Anions: 0.91   Tot. P:  22.1
Tot. Al:   33.9    Ext. Al:   8.3    Fe:   62.0      Mn:    23.0     SiO2:  0.18


ID: 1D2-040   Name: WESTEND POND                          State: MA  Date: 06NOV84
Sample Type: REGULAR           Latitude: 41-27'45"N    Longitude: 70-47'45"W
Elevation:     6   Surface Temp: 13.1  Stratified: MIXED     Site Depth:    3.0
Lake Area:      26 Watershed Area:     106 WA/LA:       4.1 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  3.0   Turbidity:   0.8      Color:    10
Closed pH: 5.93        Equil. pH: 6.24               ANC:    14.7         DOC:  1.51
Closed DIC:  0.46   Equil. DIC:  0.26    Meas. Cond: 130.2   Cal. Cond: 140.6
Ca:   84.2           Mg:  186.7       Na:  760.4         K:  27.8        NH4:   1.9
SO4:  226.7        HCO3:    8.7       Cl:  864.1       NO3:   4.9          F:   1.4
Sum Cations: 1062.5  Sum Anions: 1105.8  Cations/Anions: 0.96   Tot. P:   8.4
Tot. Al:   10.9    Ext. Al:   1.3    Fe:   46.0      Mn:    41.0     SiO2:  0.32


ID: 1D2-043   Name: GIBBS POND                            State: MA  Date: 06NOV84
Sample Type: REGULAR           Latitude: 41-16'25"N    Longitude: 70-01'00"W
Elevation:    28   Surface Temp: 12.6  Stratified: MIXED     Site Depth:    4.6
Lake Area:      14 Watershed Area:     119 WA/LA:       8.8 Hydro Type: DRAINAGE
Residence Time:  0.44  Secchi Depth:  0.7   Turbidity:   2.5      Color:   125
Closed pH: 5.70        Equil. pH: 5.94               ANC:    34.6         DOC: 11.67
Closed DIC:  0.55   Equil. DIC:  0.24    Meas. Cond:  99.0   Cal. Cond: 101.6
Ca:   98.0           Mg:  170.3       Na:  478.5         K:  42.5        NH4:   1.1
SO4:  162.4        HCO3:    8.6       Cl:  586.4       NO3:   0.4          F:   8.4
Sum Cations:  793.0  Sum Anions:  766.2  Cations/Anions: 1.04   Tot. P: 376.4
Tot. Al:  308.0    Ext. Al:  15.8    Fe:  420.0      Mn:    33.0     SiO2:  2.56
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D2-044   Name: ANDOVER LAKE                          State: CT  Date: 13NOV84
Sample Type: REGULAR             Latitude: 41-43'00"N    Longitude: 72-21'30"W
Elevation:  414   Surface Temp: 10.7  Stratified: MIXED      Site Depth:   4.3
Lake Area:      63 Watershed Area:    1039 WA/LA:     16.4 Hydro Type: RESERVOIR
Residence Time:  0.19  Secchi Depth:  1.3   Turbidity:   1.2      Color:   25
Closed pH: 7.18        Equil. pH: 7.46               ANC:  207.7         DOC:  4.10
Closed DIC:  2.48   Equil. DIC:  2.38    Meas. Cond:  59.3   Cal. Cond:  61.1
Ca:  214.6          Mg:    93.0        Na:  173.1          K:  38.1       NH4:  0.0
SO4:   143.4      HCO3:  176.0        Cl:  162.2         NO3:   0.9          F:  1.7
Sum Cations:  518.9  Sum Anions:  484.4  Cations/Anions: 1.07   Tot. P:  24.0
Tot. Al:    41.0    Ext. Al:    6.0    Fe:  140.0       Mn:    0.0     SiO2:  2.61

ID: 1D2-045   Name: TRANSYLVANIA POND                     State: CT  Date: 08NOV84
Sample Type: REGULAR             Latitude: 41-30'40"N    Longitude: 73-14'20"W
Elevation:  294   Surface Temp:  8.1  Stratified: MIXED      Site Depth:   0.9
Lake Area:      13 Watershed Area:     443 WA/LA:     34.9 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  2.5   Turbidity:   2.0      Color:   40
Closed pH: 7.32        Equil. pH: 8.36               ANC:  783.8         DOC:  8.20
Closed DIC:  9.84   Equil. DIC:  8.79    Meas. Cond: 149.8   Cal. Cond: 152.5
Ca:  707.6          Mg:   190.0        Na:  421.1          K:  53.4       NH4:  0.0
SO4:   107.8      HCO3:  691.2        Cl:  464.3         NO3:   3.7          F:  2.7
Sum Cations: 1372.2  Sum Anions: 1271.1  Cations/Anions: 1.08   Tot. P:  31.0
Tot. Al:    23.0    Ext. Al:    0.0    Fe:  220.0       Mn:   20.0     SiO2:  2.43

ID: 1D2-049   Name: SPRING GROVE POND                     State: RI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 41-54'35"N    Longitude: 71-39'00"W
Elevation:  433   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   3.0
Lake Area:       9 Watershed Area:     212 WA/LA:     23.6 Hydro Type: RESERVOIR
Residence Time:  0.11  Secchi Depth:  2.4   Turbidity:   0.5      Color:   25
Closed pH: 6.41        Equil. pH: 6.79               ANC:  112.3         DOC:  4.14
Closed DIC:  2.22   Equil. DIC:  1.35    Meas. Cond:  65.4   Cal. Cond:  68.0
Ca:  145.2          Mg:    49.8        Na:  314.1          K:  30.3       NH4:  2.5
SO4:   124.3      HCO3:   92.7        Cl:  316.3         NO3:   0.7          F:  4.1
Sum Cations:  542.2  Sum Anions:  538.1  Cations/Anions: 1.01   Tot. P:   8.2
Tot. Al:    52.8    Ext. Al:    4.0    Fe:   71.0       Mn:   14.0     SiO2:  2.50

ID: 1D2-050   Name: TIOGUE LAKE                           State: RI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 41-40'45"N    Longitude: 71-33'00"W
Elevation:  229   Surface Temp: 10.7  Stratified: MIXED      Site Depth:   2.0
Lake Area:      96 Watershed Area:     477 WA/LA:      5.0 Hydro Type: RESERVOIR
Residence Time:  0.31  Secchi Depth:  2.0   Turbidity:   1.3      Color:   20
Closed pH: 7.28        Equil. pH: 7.78               ANC:  421.7         DOC:  2.61
Closed DIC:  5.08   Equil. DIC:  4.55    Meas. Cond: 156.1   Cal. Cond: 164.9
Ca:  300.1          Mg:   147.2        Na:  824.3          K:  58.8       NH4:  7.1
SO4:   229.6      HCO3:  389.8        Cl:  728.3         NO3:  19.2          F:  6.6
Sum Cations: 1337.6  Sum Anions: 1374.7  Cations/Anions: 0.97   Tot. P:   8.3
Tot. Al:   262.3    Ext. Al:    1.1    Fe:  172.0       Mn:   64.0     SiO2:  1.58

ID: 102-053   Name: SHALLOW POND                          State: MA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-36'33"N    Longitude: 70-35'10"W
Elevation:   27   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   1.0
Lake Area:       4 Watershed Area:      31 WA/LA:      7.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.0   Turbidity:   0.4      Color:   30
Closed pH: 6.03        Equil. pH: 6.81               ANC:   53.5         DOC:  5.97
Closed DIC:  1.52   Equil. DIC:  0.56    Meas. Cond:  66.8   Cal. Cond:  66.5
Ca:   53.6          Mg:    72.6        Na:  369.8          K:  20.5       NH4:  1.2
SO4:    91.0      HCO3:   42.6        Cl:  392.7         NO3:   0.0          F:  0.8
Sum Cations:  518.1  Sum Anions:  527.2  Cations/Anions: 0.98   Tot. P:  11.4
Tot. Al:     9.2    Ext. Al:    4.0    Fe:  152.0       Mn:   12.0     SiO2:  0.30
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D2-055   Name: BIG STATION POND                  State: MA  Date: 06NOV84
Sample Type: REGULAR           Latitude: 41-32'56"N   Longitude: 70-00'23"W
Elevation:    2   Surface Temp: 11.8  Stratified: MIXED     Site Depth:   4.3
Lake Area:      11 Watershed Area:     31 WA/LA:     2.8 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.3   Turbidity:   1.8     Color:   30
Closed pH: 7.72      Equil. pH: 8.34             ANC: 1234.3        DOC:  9.16
Closed DIC: 13.81   Equil. DIC: 12.96    Meas. Cond: 387.8   Cal. Cond: 401.0
Ca:  543.9         Mg:  575.0        Na: 2155.0         K: 137.8      NH4: 41.1
SO4:  186.6       HCO3: 1052.8       Cl: 2016.1      NO3:   2.2          F: 17.1
Sum Cations: 3452.8  Sum Anions: 3280.7  Cations/Anions: 1.05   Tot. P: 144.0
Tot. Al:   51.9    Ext. Al:    4.1    Fe:  132.0     Mn:     9.0    SiO2:  1.33
```

```
ID: 1D2-059   Name: LONG POND                         State: MA  Date: 06NOV84
Sample Type: REGULAR           Latitude: 41-56'40"N   Longitude: 70-00'20"W
Elevation:    2   Surface Temp: 13.2  Stratified: MIXED     Site Depth:   9.1
Lake Area:       14 Watershed Area:    122 WA/LA:     8.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  7.9   Turbidity:   0.3     Color:    5
Closed pH: 4.69      Equil. pH: 4.68             ANC:  -18.0        DOC:  0.58
Closed DIC:  0.30   Equil. DIC:  0.17    Meas. Cond:  97.1   Cal. Cond: 103.2
Ca:   54.5         Mg:  116.4        Na:  514.6         K:  21.4      NH4:  1.9
SO4:  152.4       HCO3:    0.5       Cl:  610.0      NO3:   1.1          F:  0.6
Sum Cations:  729.9  Sum Anions:  764.6  Cations/Anions: 0.95   Tot. P:   5.7
Tot. Al:   51.0    Ext. Al:   44.8    Fe:   31.0     Mn:    55.5    SiO2:  0.04
```

```
ID: 1D2-060   Name: MOREY HOLE                        State: MA  Date: 07NOV84
Sample Type: REGULAR           Latitude: 41-52'03"N   Longitude: 70-33'29"W
Elevation:   47   Surface Temp: 11.6  Stratified: MIXED     Site Depth:   3.6
Lake Area:        9 Watershed Area:     65 WA/LA:     7.2 Hydro Type: DRAINAGE
Residence Time:  0.41  Secchi Depth:  3.6   Turbidity:   0.2     Color:   10
Closed pH: 6.46      Equil. pH: 6.84             ANC:   51.3        DOC:  1.70
Closed DIC:  0.99   Equil. DIC:  0.63    Meas. Cond:  51.5   Cal. Cond:  52.5
Ca:   41.4         Mg:   71.2        Na:  277.1         K:  14.1      NH4:  0.7
SO4:  114.9       HCO3:   40.0       Cl:  263.3      NO3:   0.0          F:  1.4
Sum Cations:  404.8  Sum Anions:  419.6  Cations/Anions: 0.96   Tot. P:   5.1
Tot. Al:   20.3    Ext. Al:    4.1    Fe:   27.0     Mn:    12.0    SiO2:  1.16
```

```
ID: 1D2-064   Name: WATCHA POND                       State: MA  Date: 06NOV84
Sample Type: REGULAR           Latitude: 41-21'17"N   Longitude: 70-36'47"W
Elevation:    4   Surface Temp: 12.2  Stratified: MIXED     Site Depth:   1.8
Lake Area;      24 Watershed Area:    559 WA/LA:    23.1 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  1.8   Turbidity:   0.5     Color:   10
Closed pH: 7.00      Equil. pH: 7.15             ANC:  112.2        DOC:  2.40
Closed DIC:  1.47   Equil. DIC:  1.29    Meas. Cond: 104.6   Cal. Cond: 111.8
Ca:  159.1         Mg:  144.0        Na:  552.9         K:  22.9      NH4:  0.7
SO4:  161.3       HCO3:  100.1       Cl:  626.1      NO3:   0.1          F:  0.9
Sum Cations:  879.7  Sum Anions:  888.5  Cations/Anions: 0.99   Tot. P:  10.8
Tot. Al:   28.9    Ext. Al:    2.7    Fe:   43.0     Mn:     4.0    SiO2:  1.13
```

```
ID: 1D2-065   Name: PATTAQUATTIC POND                 State: MA  Date: 03NOV84
Sample Type: REGULAR           Latitude: 42-12'45"N   Longitude: 72-18'39"W
Elevation:  363   Surface Temp: 12.9  Stratified: MIXED     Site Depth:   5.4
Lake Area:        7 Watershed Area:     26 WA/LA:     3.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.8   Turbidity:   2.2     Color:   20
Closed pH: 6.96      Equil. pH: 7.77             ANC:  424.9        DOC:  2.44
Closed DIC:  5.74   Equil. DIC:  4.71    Meas. Cond: 123.7   Cal. Cond: 132.2
Ca:  472.3         Mg:  185.5        Na:  359.1         K:  47.6      NH4:  9.9
SO4:  219.0       HCO3:  354.2       Cl:  490.2      NO3:  16.9          F:  1.6
Sum Cations: 1074.4  Sum Anions: 1082.5  Cations/Anions: 0.99   Tot. P:  19.6
Tot. Al:   38.4    Ext. Al:    0.9    Fe:   28.0     Mn:    70.0    SiO2:  6.44
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D2-069   Name: KING POND                          State: RI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 41-46'22"N   Longitude: 71-39'38"W
Elevation:  449   Surface Temp: 10.1  Stratified: MIXED     Site Depth:   0.9
Lake Area:       7 Watershed Area:      78 WA/LA:     11.0 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  0.9  Turbidity:   0.3     Color:    10
Closed pH: 6.15       Equil. pH: 6.55               ANC:   32.4         DOC:  3.85
Closed DIC:  0.67   Equil. DIC:  0.39    Meas. Cond:  29.7   Cal. Cond:  30.7
Ca:   67.6          Mg:    28.5       Na:  119.1          K:  18.9        NH4:   0.9
SO4:  116.3       HCO3:    28.2       Cl:   81.4        NO3:   0.0          F:  14.6
Sum Cations:  235.6  Sum Anions:  240.5  Cations/Anions: 0.98   Tot. P:   4.5
Tot. Al:   55.2   Ext. Al:  11.7    Fe:     5.0     Mn:    8.0    SiO2:  0.18

ID: 1D2-074   Name: STETSON POND                       State: MA  Date: 13NOV84
Sample Type: REGULAR             Latitude: 42-01'40"N   Longitude: 70-49'39"W
Elevation:   61   Surface Temp: 11.3  Stratified: MIXED     Site Depth:   6.4
Lake Area:      36 Watershed Area:     127 WA/LA:      3.6 Hydro Type: DRAINAGE
Residence Time:  1.32  Secchi Depth:  2.3  Turbidity:   0.8     Color:    25
Closed pH: 6.46       Equil. pH: 7.19               ANC:   80.9         DOC:  3.20
Closed DIC:  1.53   Equil. DIC:  0.96    Meas. Cond:  93.8   Cal. Cond:  99.6
Ca:  133.7          Mg:   116.0       Na:  455.4          K:  42.7        NH4:   4.4
SO4:  154.1       HCO3:    70.1       Cl:  563.1        NO3:   7.5          F:   3.5
Sum Cations:  752.6  Sum Anions:  798.3  Cations/Anions: 0.94   Tot. P:  29.0
Tot. Al:   33.0   Ext. Al:   7.0    Fe:   190.0     Mn:   40.0    SiO2:  0.59

ID: 1D2-076   Name: HAMBLIN POND                       State: MA  Date: 07NOV84
Sample Type: REGULAR             Latitude: 41-40'04"N   Longitude: 70-24'35"W
Elevation:   42   Surface Temp: 13.0  Stratified: MIXED     Site Depth:  15.8
Lake Area:      46 Watershed Area:      88 WA/LA:      1.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  5.4  Turbidity:   0.5     Color:    15
Closed pH: 6.77       Equil. pH: 7.18               ANC:  113.6         DOC:  2.17
Closed DIC:  1.79   Equil. DIC:  1.45    Meas. Cond:  64.6   Cal. Cond:  68.5
Ca:  102.0          Mg:   107.8       Na:  294.5          K:  19.0        NH4:   7.0
SO4:  137.9       HCO3:   109.0       Cl:  313.8        NO3:   1.2          F:   1.4
Sum Cations:  530.5  Sum Anions:  563.3  Cations/Anions: 0.94   Tot. P:  47.0
Tot. Al:   12.9   Ext. Al:   2.8    Fe:    15.0     Mn:   11.0    SiO2:  0.04

ID: 1D2-077   Name: STONY BROOK POND                   State: MA  Date: 04NOV84
Sample Type: REGULAR             Latitude: 42-06'34"N   Longitude: 71-19'17"W
Elevation:  174   Surface Temp:  7.5  Stratified: MIXED     Site Depth:   1.8
Lake Area:      15 Watershed Area:     761 WA/LA:     49.7 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  1.3  Turbidity:   1.0     Color:   100
Closed pH: 6.72       Equil. pH: 7.78               ANC:  423.5         DOC:  9.06
Closed DIC:  6.32   Equil. DIC:  4.36    Meas. Cond: 150.2   Cal. Cond: 161.9
Ca:  436.1          Mg:   261.6       Na:  584.2          K:  48.5        NH4:  10.1
SO4:  240.6       HCO3:   376.8       Cl:  681.9        NO3:   2.1          F:   4.1
Sum Cations: 1340.7  Sum Anions: 1305.8  Cations/Anions: 1.03   Tot. P: 101.0
Tot. Al:   93.3   Ext. Al:   2.7    Fe:   153.0     Mn:   28.0    SiO2:  9.84

ID: 1D2-078   Name: CAHOON POND                        State: MA  Date: 06NOV84
Sample Type: REGULAR             Latitude: 41-43'32"N   Longitude: 70-02'07"W
Elevation:   31   Surface Temp: 12.2  Stratified: MIXED     Site Depth:   1.2
Lake Area:      12 Watershed Area:      52 WA/LA:      4.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.2  Turbidity:   0.1     Color:     5
Closed pH: 4.50       Equil. pH: 4.50               ANC:  -27.8         DOC:  1.62
Closed DIC:  0.34   Equil. DIC:  0.17    Meas. Cond: 126.9   Cal. Cond: 132.2
Ca:   45.2          Mg:    73.2       Na:  779.1          K:  14.7        NH4:   3.0
SO4:  128.2       HCO3:     0.4       Cl:  847.1        NO3:   3.4          F:   0.8
Sum Cations:  943.9  Sum Anions:  979.9  Cations/Anions: 0.96   Tot. P:   7.6
Tot. Al:   88.3   Ext. Al:  93.7    Fe:    33.0     Mn:   41.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D2-080   Name: PICKEREL LAKE                       State: CT  Date: 13NOV84
Sample Type: REGULAR            Latitude: 41-31'48"N    Longitude: 72-25'13"W
Elevation:  130   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   1.5
Lake Area:      33 Watershed Area:     324 WA/LA:      9.8 Hydro Type: RESERVOIR
Residence Time:  0.13  Secchi Depth:  1.4   Turbidity:   0.4      Color:   25
Closed pH: 6.95       Equil. pH: 7.18                ANC:   84.4         DOC:  3.50
Closed DIC:  1.03   Equil. DIC:  1.14    Meas. Cond:  35.5   Cal. Cond:  37.2
Ca:  102.8           Mg:    62.5        Na:  121.4          K:  23.5        NH4:  0.0
SO4:  107.2        HCO3:   69.2       Cl:  106.1        NO3:   0.2           F:  2.2
Sum Cations:  310.4  Sum Anions:  284.9  Cations/Anions: 1.09   Tot. P:   6.0
Tot. Al:   21.0    Ext. Al:    3.0    Fe:  120.0       Mn:    0.0     SiO2:  0.67

ID: 1D2-081   Name: WHITE POND                          State: MA  Date: 04NOV84
Sample Type: REGULAR            Latitude: 42-23'28"N    Longitude: 71-28'52"W
Elevation:  188   Surface Temp: 12.9  Stratified: MIXED      Site Depth:  10.7
Lake Area:      21 Watershed Area:      75 WA/LA:      3.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.1   Turbidity:   0.6      Color:   15
Closed pH: 6.79       Equil. pH: 7.33                ANC:  139.1         DOC:  1.58
Closed DIC:  2.01   Equil. DIC:  1.60    Meas. Cond:  85.8   Cal. Cond:  89.8
Ca:  179.0           Mg:    71.5        Na:  420.4          K:  23.9        NH4:  1.0
SO4:  140.1        HCO3:  136.2       Cl:  459.5        NO3:   0.1           F:  1.6
Sum Cations:  696.0  Sum Anions:  737.6  Cations/Anions: 0.94   Tot. P:   5.8
Tot. Al:   14.2    Ext. Al:    1.5    Fe:    0.0       Mn:   15.0     SiO2:  1.10

ID: 1D2-084   Name: GOOSE POND                          State: MA  Date: 06NOV84
Sample Type: REGULAR            Latitude: 41-41'38"N    Longitude: 70-00'28"W
Elevation:   15   Surface Temp: 13.5  Stratified: MIXED      Site Depth:   7.0
Lake Area:      14 Watershed Area:      52 WA/LA:      3.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.6   Turbidity:   1.0      Color:   10
Closed pH: 6.57       Equil. pH: 7.38                ANC:  142.6         DOC:  4.10
Closed DIC:  2.63   Equil. DIC:  1.69    Meas. Cond:  91.2   Cal. Cond:  96.8
Ca:  156.3           Mg:   117.6        Na:  455.0          K:  20.2        NH4: 21.2
SO4:  115.1        HCO3:  140.9       Cl:  521.4        NO3:   1.0           F:  1.1
Sum Cations:  770.5  Sum Anions:  779.6  Cations/Anions: 0.99   Tot. P:  16.8
Tot. Al:   11.8    Ext. Al:    1.3    Fe:   27.0       Mn:   26.0     SiO2:  0.39

ID: 1D2-086   Name: FLAT RIVER RES. (EAST ARM)          State: RI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 41-41'01"N    Longitude: 71-36'00"W
Elevation:  248   Surface Temp: 11.6  Stratified: MIXED      Site Depth:   2.1
Lake Area:       5 Watershed Area:      47 WA/LA:      9.0 Hydro Type: RESERVOIR
Residence Time:  0.19  Secchi Depth:  2.1   Turbidity:   0.6      Color:   25
Closed pH: 6.60       Equil. pH: 7.11                ANC:   98.3         DOC:  3.36
Closed DIC:  1.57   Equil. DIC:  1.13    Meas. Cond:  67.9   Cal. Cond:  71.2
Ca:  135.3           Mg:    54.8        Na:  333.6          K:  26.0        NH4:  1.8
SO4:  136.2        HCO3:   88.2       Cl:  337.8        NO3:   4.8           F:  8.2
Sum Cations:  551.7  Sum Anions:  575.2  Cations/Anions: 0.96   Tot. P:   7.2
Tot. Al:   75.8    Ext. Al:    3.7    Fe:  158.0       Mn:   17.0     SiO2:  3.46

ID: 1D2-087   Name: CUSKY POND                          State: MA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 42-19'25"N    Longitude: 72-05'32"W
Elevation:  979   Surface Temp:  7.5  Stratified: MIXED      Site Depth:   0.9
Lake Area:      13 Watershed Area:     155 WA/LA:     12.3 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  0.9   Turbidity:   1.0      Color:   45
Closed pH: 6.65       Equil. pH: 7.60                ANC:  257.5         DOC:  8.15
Closed DIC:  4.13   Equil. DIC:  2.71    Meas. Cond:  62.3   Cal. Cond:  64.1
Ca:  184.9           Mg:   115.2        Na:  203.7          K:  51.2        NH4:  1.1
SO4:   67.7        HCO3:  208.9       Cl:  237.1        NO3:   0.1           F:  2.1
Sum Cations:  556.2  Sum Anions:  516.0  Cations/Anions: 1.08   Tot. P:  13.1
Tot. Al:   45.6    Ext. Al:    2.4    Fe:  260.0       Mn:   14.0     SiO2:  1.36
```

(continued)

TABLE 3-1 (continued)

```
                                                       State: MA  Date: 13NOV84
ID: 102-091   Name: (NO NAME)
Sample Type: REGULAR             Latitude: 42-00'04"N   Longitude: 70-53'35"W
Elevation:   47   Surface Temp: 11.0  Stratified: MIXED     Site Depth:   1.2
Lake Area:       67 Watershed Area:     344 WA/LA:     5.1 Hydro Type: DRAINAGE
Residence Time:  0.18  Secchi Depth:  0.7  Turbidity:   1.2     Color:    93
Closed pH: 6.46        Equil. pH: 7.03            ANC:   90.4        DOC:  9.40
Closed DIC:  1.21  Equil. DIC:  0.81    Meas. Cond:  99.4  Cal. Cond: 107.3
Ca:  157.9          Mg:  145.2        Na:  471.8        K:  45.5       NH4:  0.0
SO4:  178.6       HCO3:   57.5      Cl:  602.8       NO3:   1.3          F:  3.8
Sum Cations:  820.7  Sum Anions:  844.1  Cations/Anions: 0.97  Tot. P:  32.5
Tot. Al:    71.0   Ext. Al:  44.5    Fe:  445.0     Mn:   20.0    SiO2:  4.86
```

```
                                                       State: MA  Date: 08NOV84
ID: 102-093   Name: ASHLAND RESERVOIR
Sample Type: REGULAR             Latitude: 42-14'22"N   Longitude: 71-27'52"W
Elevation:  219   Surface Temp: 10.9  Stratified: MIXED     Site Depth:  12.8
Lake Area:       62 Watershed Area:    1683 WA/LA:    27.3 Hydro Type: RESERVOIR
Residence Time:  0.42  Secchi Depth:  2.6  Turbidity:   0.4     Color:    40
Closed pH: 6.87        Equil. pH: 7.67            ANC:  206.2        DOC:  4.90
Closed DIC:  3.00  Equil. DIC:  2.23    Meas. Cond: 102.7  Cal. Cond: 114.2
Ca:  314.4          Mg:  136.6        Na:  405.9        K:  35.5       NH4:  0.6
SO4:  303.6       HCO3:  166.9      Cl:  426.0       NO3:  11.7          F:  4.1
Sum Cations:  893.0  Sum Anions:  912.4  Cations/Anions: 0.98  Tot. P:   7.0
Tot. Al:    48.0   Ext. Al:   7.0    Fe:   60.0     Mn:    0.0    SiO2:  4.64
```

```
                                                       State: MA  Date: 06NOV84
ID: 102-094   Name: SNOWS POND
Sample Type: REGULAR             Latitude: 41-45'30"N   Longitude: 70-51'10"W
Elevation:   57   Surface Temp: 12.8  Stratified: MIXED     Site Depth:   7.6
Lake Area:       22 Watershed Area:      93 WA/LA:     4.2 Hydro Type: DRAINAGE
Residence Time:  1.37  Secchi Depth:  7.6  Turbidity:   0.2     Color:     5
Closed pH: 5.10        Equil. pH: 5.16            ANC:   -0.7        DOC:  0.93
Closed DIC:  0.38  Equil. DIC:  0.88    Meas. Cond:  34.5  Cal. Cond:  34.3
Ca:   37.6          Mg:   43.4        Na:  132.4        K:  16.7       NH4:  0.6
SO4:   90.8       HCO3:    1.8      Cl:  159.3       NO3:   0.2          F:  1.0
Sum Cations:  237.3  Sum Anions:  253.1  Cations/Anions: 0.94  Tot. P:   6.6
Tot. Al:    39.9   Ext. Al:  27.4    Fe:    0.0     Mn:   49.0    SiO2:  0.53
```

```
                                                       State: MA  Date: 31OCT84
ID: 103-001   Name: STEVENS POND
Sample Type: REGULAR             Latitude: 42-41'00"N   Longitude: 70-59'55"W
Elevation:  109   Surface Temp: 13.2  Stratified: MIXED     Site Depth:   3.0
Lake Area:        4 Watershed Area:      23 WA/LA:     5.2 Hydro Type: SEEPAGE
Residence Time:     *  Secchi Depth:  2.7  Turbidity:   1.2     Color:    30
Closed pH: 6.98        Equil. pH: 7.65            ANC:  291.2        DOC:  5.62
Closed DIC:  3.89  Equil. DIC:  3.21    Meas. Cond: 148.1  Cal. Cond: 148.7
Ca:  377.2          Mg:  154.6        Na:  673.4        K:  17.4       NH4:  1.3
SO4:  176.1       HCO3:  257.1      Cl:  750.6       NO3:   0.4          F:  1.9
Sum Cations: 1224.1  Sum Anions: 1186.4  Cations/Anions: 1.03  Tot. P:  15.3
Tot. Al:    28.8   Ext. Al:   3.1    Fe:   76.0     Mn:   16.0    SiO2:  2.06
```

```
                                                       State: MA  Date: 31OCT84
ID: 103-002   Name: DYKES POND
Sample Type: REGULAR             Latitude: 42-36'15"N   Longitude: 70-43'46"W
Elevation:   97   Surface Temp: 13.6  Stratified: MIXED     Site Depth:   9.1
Lake Area:       23 Watershed Area:     142 WA/LA:     6.3 Hydro Type: DRAINAGE
Residence Time:  1.16  Secchi Depth:  2.6  Turbidity:   1.4     Color:    40
Closed pH: 5.29        Equil. pH: 5.50            ANC:    7.9        DOC:  3.10
Closed DIC:  0.73  Equil. DIC:  0.13    Meas. Cond:  86.5  Cal. Cond:  90.8
Ca:   88.0          Mg:   71.3        Na:  499.4        K:  20.2       NH4:  0.9
SO4:  155.2       HCO3:    6.1      Cl:  531.2       NO3:   0.3          F:  8.7
Sum Cations:  683.9  Sum Anions:  701.5  Cations/Anions: 0.97  Tot. P:  16.8
Tot. Al:   195.1   Ext. Al:  50.5    Fe:  245.0     Mn:  289.5    SiO2:  1.49
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D3-003   Name: SANDY POND                            State: MA  Date: 31OCT84
Sample Type: REGULAR              Latitude: 42-33'45"N    Longitude: 71-33'15"W
Elevation:  226   Surface Temp: 13.7  Stratified: MIXED      Site Depth:   6.1
Lake Area:      28 Watershed Area:     549 WA/LA:    19.5 Hydro Type: DRAINAGE
Residence Time:  0.27  Secchi Depth:  1.9   Turbidity:   2.2      Color:    25
Closed pH: 6.90        Equil. pH: 7.42               ANC:  163.1        DOC:  3.98
Closed DIC:  2.21   Equil. DIC:  1.81    Meas. Cond:  66.7   Cal. Cond:  68.9
Ca:  179.2             Mg:   52.2        Na:  324.5          K:  20.9      NH4:  0.9
SO4:  108.4        HCO3:  134.9        Cl:  296.3        NO3:   0.7         F:  3.5
Sum Cations:  578.0  Sum Anions:  543.9  Cations/Anions: 1.06   Tot. P:  14.2
Tot. Al:  136.5    Ext. Al:    2.2    Fe:   199.0      Mn:  132.0     SiO2:  0.67

ID: 1D3-004   Name: CROCKER POND                          State: MA  Date: 08NOV84
Sample Type: REGULAR              Latitude: 42-31'40"N    Longitude: 71-51'15"W
Elevation:  245   Surface Temp:  5.9  Stratified: MIXED      Site Depth:   1.6
Lake Area:       5 Watershed Area:     174 WA/LA:    38.7 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  1.6   Turbidity:   1.2      Color:    15
Closed pH: 6.84        Equil. pH: 7.49               ANC:  128.4        DOC:  1.90
Closed DIC:  1.93   Equil. DIC:  1.50    Meas. Cond:  46.7   Cal. Cond:  49.4
Ca:  108.8             Mg:   38.7        Na:  230.5          K:  17.1      NH4:  0.0
SO4:   81.6        HCO3:  112.5        Cl:  212.7        NO3:   0.0         F:  4.6
Sum Cations:  395.3  Sum Anions:  411.5  Cations/Anions: 0.96   Tot. P:  15.0
Tot. Al:   42.0    Ext. Al:    2.0    Fe:    40.0      Mn:   10.0     SiO2:  2.46

ID: 1D3-006   Name: STUART POND                           State: MA  Date: 08NOV84
Sample Type: REGULAR              Latitude: 42-29'00"N    Longitude: 71-49'45"W
Elevation:  615   Surface Temp:  6.0  Stratified: MIXED      Site Depth:   1.2
Lake Area:      15 Watershed Area:    1044 WA/LA:    69.6 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.2   Turbidity:   0.5      Color:    25
Closed pH: 6.12        Equil. pH: 6.71               ANC:   17.4        DOC:  3.20
Closed DIC:  0.94   Equil. DIC:  0.43    Meas. Cond:  33.7   Cal. Cond:  34.1
Ca:   68.4             Mg:   33.7        Na:  150.1          K:  12.5      NH4:  0.0
SO4:  104.7        HCO3:   27.6        Cl:  128.1        NO3:   0.6         F:  3.6
Sum Cations:  265.3  Sum Anions:  264.6  Cations/Anions: 1.00   Tot. P:   7.0
Tot. Al:   76.0    Ext. Al:   38.0    Fe:    50.0      Mn:    0.0     SiO2:  3.71

ID: 1D3-008   Name: GREAT PONDS (SOUTHERN)                State: MA  Date: 08NOV84
Sample Type: REGULAR              Latitude: 42-23'30"N    Longitude: 72-36'22"W
Elevation:  110   Surface Temp:  7.8  Stratified: MIXED      Site Depth:   2.4
Lake Area:       4 Watershed Area:     546 WA/LA:   127.0 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:    *   Turbidity:   7.7      Color:    60
Closed pH: 7.01        Equil. pH: 8.24               ANC:  690.9        DOC:  5.40
Closed DIC:  9.33   Equil. DIC:  7.61    Meas. Cond: 250.4   Cal. Cond: 270.2
Ca:  674.4             Mg:  312.2        Na:  980.9          K: 149.8      NH4: 20.5
SO4:  363.3        HCO3:  638.1        Cl: 1215.1        NO3:  20.2         F:  3.5
Sum Cations: 2137.9  Sum Anions: 2241.4  Cations/Anions: 0.95   Tot. P:  81.0
Tot. Al:  228.0    Ext. Al:    2.0    Fe:   415.0      Mn:  140.0     SiO2:  2.25

ID: 1D3-015   Name: (NO NAME)                             State: MA  Date: 04NOV84
Sample Type: REGULAR              Latitude: 42-12'20"N    Longitude: 70-58'35"W
Elevation:   67   Surface Temp:  9.4  Stratified: MIXED      Site Depth:   1.2
Lake Area:       8 Watershed Area:     285 WA/LA:    35.2 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.2   Turbidity:   2.9      Color:    80
Closed pH: 6.60        Equil. pH: 7.60               ANC:  284.1        DOC:  9.67
Closed DIC:  4.31   Equil. DIC:  3.02    Meas. Cond: 237.9   Cal. Cond: 251.5
Ca:  425.6             Mg:  238.6        Na: 1183.2          K:  63.5      NH4: 39.3
SO4:  366.6        HCO3:  270.7        Cl: 1373.5     -  NO3:   1.9         F:  5.6
Sum Cations: 1950.3  Sum Anions: 2018.5  Cations/Anions: 0.97   Tot. P:  27.5
Tot. Al:  120.5    Ext. Al:    4.5    Fe:   549.0      Mn:  200.0     SiO2:  3.21
```

(continued)

TABLE 3-1 (continued)

```
ID: 103-016   Name: ASHLEY POND                         State: MA  Date: 08NOV84
Sample Type: REGULAR            Latitude: 42-10'00"N    Longitude: 72-40'00"W
Elevation:  317   Surface Temp: 11.2  Stratified: MIXED      Site Depth:  10.1
Lake Area:       53 Watershed Area:     616 WA/LA:      11.6 Hydro Type: DRAINAGE
Residence Time:  0.73  Secchi Depth:  2.9   Turbidity:   1.0      Color:    20
Closed pH: 6.99         Equil. pH: 7.95              ANC:  296.2        DOC:  2.00
Closed DIC:  4.14   Equil. DIC:  3.28    Meas. Cond:  55.6   Cal. Cond:  58.0
Ca:  269.5            Mg:  131.6      Na:   82.2       K:   8.9       NH4:   3.3
SO4:  138.9        HCO3:  292.6      Cl:   73.9      NO3:   0.6         F:   2.3
Sum Cations:  495.6  Sum Anions:  508.8  Cations/Anions: 0.97  Tot. P:  13.0
Tot. Al:    6.0    Ext. Al:    0.0    Fe:    70.0     Mn:  110.0    SiO2:  4.90

ID: 103-017   Name: DARK BROOK RESERVOIR                State: MA  Date: 08NOV84
Sample Type: REGULAR            Latitude: 42-11'30"N    Longitude: 71-51'45"W
Elevation:  609   Surface Temp:  8.6  Stratified: MIXED      Site Depth:   1.8
Lake Area:      102 Watershed Area:     606 WA/LA:       5.9 Hydro Type: RESERVOIR
Residence Time:  0.20  Secchi Depth:  1.8   Turbidity:   0.5      Color:    15
Closed pH: 7.33         Equil. pH: 7.97              ANC:  560.9        DOC:  3.20
Closed DIC:  6.47   Equil. DIC:  6.20    Meas. Cond: 262.4   Cal. Cond: 282.6
Ca:  650.7            Mg:  144.8      Na: 1436.4       K:  59.1       NH4:   0.0
SO4:  174.9        HCO3:  499.2      Cl: 1616.4      NO3:   1.6         F:   2.8
Sum Cations: 2291.0  Sum Anions: 2296.1  Cations/Anions: 1.00  Tot. P:  14.0
Tot. Al:   12.0    Ext. Al:    1.0    Fe:    40.0     Mn:    0.0    SiO2:  0.27

ID: 103-019   Name: WEST LAKE                           State: MA  Date: 07NOV84
Sample Type: REGULAR            Latitude: 42-08'00"N    Longitude: 73-09'45"W
Elevation: 1571   Surface Temp:  7.8  Stratified: MIXED      Site Depth:   3.7
Lake Area:       23 Watershed Area:     381 WA/LA:      16.7 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  0.9   Turbidity:   2.9      Color:    35
Closed pH: 7.35         Equil. pH: 7.84              ANC:  436.1        DOC:  5.75
Closed DIC:  5.00   Equil. DIC:  4.17    Meas. Cond:  60.1   Cal. Cond:  62.7
Ca:  291.3            Mg:  205.6      Na:   60.4       K:  17.2       NH4:   5.3
SO4:  118.8        HCO3:  385.3      Cl:   39.9      NO3:   0.5         F:   0.2
Sum Cations:  579.9  Sum Anions:  545.7  Cations/Anions: 1.06  Tot. P:  16.9
Tot. Al:  105.7    Ext. Al:    2.1    Fe:    88.0     Mn:   17.0    SiO2:  1.05

ID: 103-020   Name: LITTLE ALUM POND                    State: MA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 42-07'45"N    Longitude: 72-09'15"W
Elevation:  775   Surface Temp: 12.4  Stratified: MIXED      Site Depth:  10.6
Lake Area:       29 Watershed Area:     150 WA/LA:       5.1 Hydro Type: DRAINAGE
Residence Time:  1.36  Secchi Depth:  5.3   Turbidity:   0.6      Color:    10
Closed pH: 6.83         Equil. pH: 7.25              ANC:  106.8        DOC:  1.98
Closed DIC:  1.50   Equil. DIC:  1.22    Meas. Cond:  39.8   Cal. Cond:  41.7
Ca:  103.6            Mg:   81.7      Na:  127.2       K:  17.1       NH4:   1.4
SO4:  124.0        HCO3:   92.3      Cl:  122.7      NO3:   0.1         F:   1.5
Sum Cations:  331.2  Sum Anions:  340.6  Cations/Anions: 0.97  Tot. P:   8.1
Tot. Al:   13.6    Ext. Al:    1.1    Fe:    30.0     Mn:   20.0    SiO2:  0.96

ID: 103-023   Name: LAKE GEORGE                         State: MA  Date: 03NOV84
Sample Type: REGULAR            Latitude: 42-03'30"N    Longitude: 72-13'20"W
Elevation:  917   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   4.5
Lake Area:       36 Watershed Area:     308 WA/LA:       8.5 Hydro Type: DRAINAGE
Residence Time:  0.36  Secchi Depth:  2.3   Turbidity:   1.1      Color:    20
Closed pH: 6.87         Equil. pH: 7.23              ANC:  122.9        DOC:  4.01
Closed DIC:  1.55   Equil. DIC:  1.33    Meas. Cond:  57.9   Cal. Cond:  60.7
Ca:  105.9            Mg:  104.5      Na:  252.1       K:  20.3       NH4:   1.6
SO4:  117.0        HCO3:  101.1      Cl:  269.0      NO3:   1.2         F:   1.7
Sum Cations:  484.5  Sum Anions:  490.1  Cations/Anions: 0.99  Tot. P:   8.6
Tot. Al:   52.3    Ext. Al:    1.5    Fe:    21.0     Mn:    4.0    SiO2:  1.12
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D3-024   Name: CROCKER POND                          State: MA  Date: 04NOV84
Sample Type: REGULAR             Latitude: 42-04'00"N   Longitude: 71-17'45"W
Elevation:  204   Surface Temp:  9.1  Stratified: MIXED      Site Depth:   0.9
Lake Area:       6 Watershed Area:     83 WA/LA:     13.0 Hydro Type: RESERVOIR
Residence Time:  0.06  Secchi Depth:  0.7  Turbidity:   3.1      Color:  150
Closed pH: 6.54        Equil. pH: 7.28               ANC:  459.3        DOC: 13.82
Closed DIC:  7.83   Equil. DIC:  4.25    Meas. Cond: 199.3   Cal. Cond: 213.9
Ca:  490.0            Mg:  255.0        Na:  914.4         K:  87.3       NH4: 15.3
SO4:  182.6        HCO3:  408.0       Cl: 1111.7        NO3:   0.5          F:  3.0
Sum Cations: 1762.2  Sum Anions: 1705.9  Cations/Anions: 1.03   Tot. P: 100.5
Tot. Al:  110.8    Ext. Al:    2.2    Fe:  612.0      Mn:   66.0     SiO2: 11.42

ID: 1D3-025   Name: LONG POND                             State: CT  Date: 08NOV84
Sample Type: REGULAR             Latitude: 42-01'15"N   Longitude: 71-49'00"W
Elevation:  478   Surface Temp:  9.1  Stratified: MIXED      Site Depth:   4.0
Lake Area:       8 Watershed Area:     57 WA/LA:      7.4 Hydro Type: DRAINAGE
Residence Time:  0.37  Secchi Depth:  2.1  Turbidity:   0.6      Color:   40
Closed pH: 6.65        Equil. pH: 7.63               ANC:  149.3        DOC:  3.90
Closed DIC:  2.49   Equil. DIC:  1.71    Meas. Cond:  34.6   Cal. Cond:  35.5
Ca:  160.2            Mg:   47.7        Na:   88.7         K:  12.5       NH4:  0.0
SO4:   91.4        HCO3:  142.2       Cl:    52.8       NO3:   0.0          F:  7.0
Sum Cations:  309.4  Sum Anions:  293.4  Cations/Anions: 1.05   Tot. P:  11.0
Tot. Al:   17.0    Ext. Al:    2.8    Fe:  310.0      Mn:    0.0     SiO2:  4.03

ID: 1D3-026   Name: ARNOLD MILLS RES                      State: RI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 41-59'00"N   Longitude: 71-23'45"W
Elevation:  162   Surface Temp: 11.8  Stratified: MIXED      Site Depth:   4.6
Lake Area:     103 Watershed Area:   3269 WA/LA:     31.8 Hydro Type: RESERVOIR
Residence Time:  0.13  Secchi Depth:  2.1  Turbidity:   3.3      Color:   35
Closed pH: 6.79        Equil. pH: 7.36               ANC:  167.9        DOC:  3.52
Closed DIC:  2.35   Equil. DIC:  1.85    Meas. Cond:  82.7   Cal. Cond:  87.2
Ca:  240.3            Mg:   89.0        Na:  322.3         K:  24.8       NH4:  5.4
SO4:  190.4        HCO3:  152.2       Cl:   359.3       NO3:   3.0          F:  3.1
Sum Cations:  681.9  Sum Anions:  708.3  Cations/Anions: 0.96   Tot. P:  12.1
Tot. Al:   39.6    Ext. Al:    1.4    Fe:  225.0      Mn:  127.0     SiO2:  2.72

ID: 1D3-028   Name: GUSHEE POND                           State: MA  Date: 04NOV84
Sample Type: REGULAR             Latitude: 41-56'30"N   Longitude: 71-01'45"W
Elevation:   63   Surface Temp: 10.1  Stratified: MIXED      Site Depth:   1.2
Lake Area:      13 Watershed Area:     83 WA/LA:      6.2 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  0.9  Turbidity:   3.9      Color:   65
Closed pH: 6.59        Equil. pH: 7.49               ANC:  232.3        DOC:  8.51
Closed DIC:  3.59   Equil. DIC:  2.48    Meas. Cond: 261.6   Cal. Cond: 263.4
Ca:  420.2            Mg:  228.7        Na: 1433.3         K:  43.4       NH4:  7.2
SO4:  173.8        HCO3:  216.4       Cl: 1664.0        NO3:   0.5          F:  3.3
Sum Cations: 2132.9  Sum Anions: 2058.2  Cations/Anions: 1.04   Tot. P:  12.6
Tot. Al:  104.9    Ext. Al:    3.2    Fe:  333.0      Mn:  428.0     SiO2:  3.51

ID: 1D3-029   Name: KILLINGLY POND                        State: CT  Date: 04NOV84
Sample Type: REGULAR             Latitude: 41-51'45"N   Longitude: 71-47'45"W
Elevation:  587   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   4.5
Lake Area:      49 Watershed Area:    363 WA/LA:      7.4 Hydro Type: DRAINAGE
Residence Time:  0.50  Secchi Depth:  4.5  Turbidity:   0.1      Color:    5
Closed pH: 4.92        Equil. pH: 4.97               ANC:   -2.6        DOC:  0.67
Closed DIC:  0.26   Equil. DIC:  0.18    Meas. Cond:  33.6   Cal. Cond:  33.7
Ca:   33.9            Mg:   23.0        Na:  125.5         K:   5.9       NH4:  1.6
SO4:  127.7        HCO3:    0.9       Cl:   111.5       NO3:   2.3          F:  6.6
Sum Cations:  202.2  Sum Anions:  249.0  Cations/Anions: 0.81   Tot. P:   2.4
Tot. Al:  172.9    Ext. Al:   79.0    Fe:   28.0      Mn:  112.0     SiO2:  1.01
```

(continued)

TABLE 3-1 (continued)

```
ID: 103-031   Name: WARREN UPPER RESERVOIR          State: MA  Date: 04NOV84
Sample Type: REGULAR            Latitude: 41-49'45"N   Longitude: 71-13'15"W
Elevation:   97   Surface Temp: 11.8  Stratified: MIXED     Site Depth:   3.0
Lake Area:      54 Watershed Area:     150 WA/LA:      2.8 Hydro Type: RESERVOIR
Residence Time:  0.74  Secchi Depth:  0.3   Turbidity:   0.8      Color:  200
Closed pH: 4.87        Equil. pH: 4.94               ANC:   11.3        DOC: 12.79
Closed DIC:  0.68   Equil. DIC:  0.23    Meas. Cond:  51.3   Cal. Cond:  53.3
Ca:   88.1           Mg:    49.2       Na:  236.4          K:  10.6       NH4:   4.2
SO4:   95.2       HCO3:     1.9      Cl:  253.7          NO3:   3.3          F:   2.8
Sum Cations:  403.0  Sum Anions:  356.8  Cations/Anions: 1.13   Tot. P:  21.9
Tot. Al:  219.6    Ext. Al:  56.0    Fe: 1082.0      Mn:   37.0     SiO2:  4.78

ID: 103-033   Name: (NO NAME)                       State: CT  Date: 08NOV84
Sample Type: REGULAR            Latitude: 41-39'30"N   Longitude: 73-11'30"W
Elevation:  299   Surface Temp:  7.3  Stratified: MIXED     Site Depth:   3.4
Lake Area:      29 Watershed Area:     350 WA/LA:     12.1 Hydro Type: RESERVOIR
Residence Time:  0.20  Secchi Depth:  1.5   Turbidity:   3.1      Color:   30
Closed pH: 7.58        Equil. pH: 8.01               ANC:  371.1        DOC:  5.50
Closed DIC:  4.06   Equil. DIC:  4.01    Meas. Cond:  90.9   Cal. Cond:  94.1
Ca:  313.4           Mg:   224.6       Na:  214.5          K:  37.3       NH4:   1.1
SO4:  202.8       HCO3:   330.8      Cl:  246.6          NO3:   0.0          F:   2.9
Sum Cations:  790.9  Sum Anions:  783.9  Cations/Anions: 1.01   Tot. P:  33.0
Tot. Al:   46.0    Ext. Al:   1.0    Fe:  150.0      Mn:  120.0     SiO2:  0.80

ID: 103-036   Name: LAKE WINNEMAUG                  State: CT  Date: 08NOV84
Sample Type: REGULAR            Latitude: 41-35'00"N   Longitude: 73-07'45"W
Elevation:  661   Surface Temp:  9.5  Stratified: MIXED     Site Depth:   4.6
Lake Area:      46 Watershed Area:     251 WA/LA:      5.5 Hydro Type: RESERVOIR
Residence Time:  0.57  Secchi Depth:  1.4   Turbidity:   4.6      Color:   25
Closed pH: 7.45        Equil. pH: 7.69               ANC:  578.4        DOC:  4.80
Closed DIC:  7.07   Equil. DIC:  6.47    Meas. Cond: 118.1   Cal. Cond: 128.6
Ca:  370.8           Mg:   250.9       Na:  341.9          K:  69.8       NH4:  20.5
SO4:  158.9       HCO3:   533.4      Cl:  421.5          NO3:   7.5          F:   3.9
Sum Cations: 1053.9  Sum Anions: 1126.6  Cations/Anions: 0.94   Tot. P:  27.0
Tot. Al:   80.0    Ext. Al:   1.0    Fe:   40.0      Mn:   60.0     SiO2:  0.36

ID: 103-042   Name: CEDAR POND                      State: CT  Date: 08NOV84
Sample Type: REGULAR            Latitude: 41-19'15"N   Longitude: 72-46'45"W
Elevation:   11   Surface Temp: 11.0  Stratified: MIXED     Site Depth:   5.1
Lake Area:       9 Watershed Area:     114 WA/LA:     12.9 Hydro Type: DRAINAGE
Residence Time:  0.34  Secchi Depth:  1.6   Turbidity:   4.2      Color:   40
Closed pH: 7.82        Equil. pH: 8.83               ANC: 2109.0        DOC:  8.80
Closed DIC: 26.27   Equil. DIC: 23.16    Meas. Cond: 267.2   Cal. Cond: 291.7
Ca:  621.3           Mg:   378.4       Na: 1731.9          K:  25.3       NH4:  13.9
SO4:  453.9       HCO3:  2009.6      Cl:  235.3          NO3:   6.1          F:   2.7
Sum Cations: 2770.8  Sum Anions: 2719.2  Cations/Anions: 1.02   Tot. P:  61.0
Tot. Al:   84.0    Ext. Al:   0.0    Fe:  150.0      Mn:  290.0     SiO2: 10.00

ID: 103-043   Name: SILVIAS POND                    State: CT  Date: 13NOV84
Sample Type: REGULAR            Latitude: 41-21'47"N   Longitude: 71-54'30"W
Elevation:   74   Surface Temp: 11.1  Stratified: MIXED     Site Depth:   2.1
Lake Area:       6 Watershed Area:      62 WA/LA:      9.7 Hydro Type: RESERVOIR
Residence Time:  0.18  Secchi Depth:  0.7   Turbidity:   6.3      Color:   85
Closed pH: 6.87        Equil. pH: 7.87               ANC:  419.1        DOC:  7.60
Closed DIC:  4.92   Equil. DIC:  3.94    Meas. Cond: 118.5   Cal. Cond: 129.5
Ca:  383.7           Mg:   239.4       Na:  350.6          K:  53.7       NH4:   1.1
SO4:  229.6       HCO3:   321.0      Cl:  516.5          NO3:   0.7          F:   3.7
Sum Cations: 1028.6  Sum Anions: 1071.9  Cations/Anions: 0.96   Tot. P:  24.0
Tot. Al:   52.0    Ext. Al:   6.0    Fe: 1070.0      Mn:   80.0     SiO2:  8.83
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D3-044   Name: MIDDLE FARMS POND                  State: NY  Date: 13NOV84
Sample Type: REGULAR              Latitude: 41-16'30"N   Longitude: 71-58'40"W
Elevation:    2   Surface Temp: 11.0  Stratified: MIXED      Site Depth:   5.5
Lake Area:     12 Watershed Area:      41 WA/LA:     3.5 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.5  Turbidity:   0.5      Color:   55
Closed pH: 6.22       Equil. pH: 6.62              ANC:   41.8        DOC:  4.90
Closed DIC:  0.91   Equil. DIC:  0.58   Meas. Cond:  87.6   Cal. Cond:  93.6
Ca:   81.8          Mg:  150.5        Na:  428.5         K:  28.6       NH4:  8.3
SO4:  152.0       HCO3:   32.6       Cl:  542.8        NO3:  16.8          F:  2.1
Sum Cations:  698.3  Sum Anions:  746.3  Cations/Anions: 0.94   Tot. P:  90.0
Tot. Al:   49.0    Ext. Al:  26.0    Fe:  580.0     Mn:    20.0    SiO2:  5.65

ID: 1D3-046   Name: FORT POND                          State: NY  Date: 13NOV84
Sample Type: REGULAR              Latitude: 41-02'30"N   Longitude: 71-57'15"W
Elevation:    3   Surface Temp: 11.0  Stratified: MIXED      Site Depth:   3.4
Lake Area:     70 Watershed Area:     259 WA/LA:     3.7 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  0.8  Turbidity:   2.2      Color:   30
Closed pH: 7.65       Equil. pH: 7.96              ANC:  382.8        DOC:  6.60
Closed DIC:  3.87   Equil. DIC:  3.98   Meas. Cond: 285.1   Cal. Cond: 347.7
Ca:  242.0          Mg:  413.8        Na: 1774.2         K:  60.1       NH4: 37.7
SO4:  401.8       HCO3:  298.9       Cl: 2220.1        NO3:   3.0          F:  3.8
Sum Cations: 2527.8  Sum Anions: 2928.2  Cations/Anions: 0.86   Tot. P:  34.0
Tot. Al:   68.0    Ext. Al:  10.0    Fe:   40.0     Mn:     0.0    SiO2:  0.08

ID: 1D3-047   Name: HOOK POND                          State: NY  Date: 13NOV84
Sample Type: REGULAR              Latitude: 40-57'00"N   Longitude: 72-11'20"W
Elevation:    4   Surface Temp:  9.7  Stratified: MIXED      Site Depth:   0.5
Lake Area:     32 Watershed Area:     881 WA/LA:    27.7 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  0.5  Turbidity:   3.1      Color:   20
Closed pH: 7.49       Equil. pH: 8.19              ANC:  811.4        DOC:  2.80
Closed DIC:  9.53   Equil. DIC:  9.20   Meas. Cond: 237.3   Cal. Cond: 267.2
Ca:  724.5          Mg:  389.1        Na:  786.5         K: 136.8       NH4: 35.5
SO4:  477.8       HCO3:  737.8       Cl:  994.4        NO3:  58.9          F:  1.5
Sum Cations: 2072.4  Sum Anions: 2272.8  Cations/Anions: 0.91   Tot. P:  38.0
Tot. Al:   70.0    Ext. Al:  10.0    Fe:   40.0     Mn:     0.0    SiO2:  2.08

ID: 1D3-048   Name: (NO NAME)                          State: NY  Date: 06NOV84
Sample Type: REGULAR              Latitude: 40-51'21"N   Longitude: 73-27'45"W
Elevation:   20   Surface Temp: 12.6  Stratified: MIXED      Site Depth:   2.1
Lake Area:      8 Watershed Area:    1039 WA/LA:   134.9 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  1.5  Turbidity:   2.4      Color:   30
Closed pH: 6.83       Equil. pH: 7.56              ANC:  257.6        DOC:  1.85
Closed DIC:  4.03   Equil. DIC:  2.91   Meas. Cond:  92.1   Cal. Cond:  99.9
Ca:  232.5          Mg:  166.2        Na:  385.4         K:  26.5       NH4:  6.1
SO4:  132.5       HCO3:  252.4       Cl:  390.6        NO3:  52.6          F:  3.0
Sum Cations:  816.8  Sum Anions:  831.3  Cations/Anions: 0.98   Tot. P:  31.1
Tot. Al:  131.5    Ext. Al:  20.5    Fe:  179.0     Mn:    19.0    SiO2:  8.73

ID: 1D3-056   Name: LEANDER POND                       State: CT  Date: 13NOV84
Sample Type: REGULAR              Latitude: 41-50'15"N   Longitude: 72-11'18"W
Elevation:  488   Surface Temp:  9.6  Stratified: MIXED      Site Depth:   0.9
Lake Area:     15 Watershed Area:     306 WA/LA:    20.3 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  0.5  Turbidity:   3.7      Color:   55
Closed pH: 6.83       Equil. pH: 7.64              ANC:  268.8        DOC:  7.10
Closed DIC:  3.72   Equil. DIC:  2.96   Meas. Cond:  70.0   Cal. Cond:  72.4
Ca:  186.6          Mg:  182.6        Na:  162.7         K:  88.0       NH4:  1.1
SO4:  142.0       HCO3:  224.4       Cl:  197.8        NO3:   4.6          F:  1.4
Sum Cations:  621.2  Sum Anions:  570.2  Cations/Anions: 1.09   Tot. P: 120.0
Tot. Al:   81.0    Ext. Al:   8.0    Fe:   80.0     Mn:     0.0    SiO2:  2.15
```

(continued)

TABLE 3-1 (continued)

```
ID: 1D3-063   Name: CHEBACCO LAKE                      State: MA  Date: 31OCT84
Sample Type: REGULAR            Latitude: 42-36'47"N    Longitude: 70-48'30"W
Elevation:   44   Surface Temp: 13.5  Stratified: MIXED      Site Depth:   6.7
Lake Area:     80 Watershed Area:   1380 WA/LA:    17.3 Hydro Type: DRAINAGE
Residence Time:  0.34  Secchi Depth:  3.1   Turbidity:   0.9     Color:   55
Closed pH: 6.77        Equil. pH: 7.43            ANC:  190.2        DOC:  7.35
Closed DIG:  2.40   Equil. DIC:  1.94    Meas. Cond:  96.2   Cal. Cond:  99.3
Ca:  207.5          Mg:  134.1       Na:  472.8         K:  24.7       NH4:  1.3
SO4:  153.7       HCO3:  162.6       Cl:  449.9       NO3:    1.3         F:  3.6
Sum Cations:  840.6  Sum Anions:  771.4  Cations/Anions: 1.09   Tot. P:  13.4
Tot. Al:    50.5    Ext. Al:    7.7    Fe:  207.0      Mn:    27.0    SiO2:  2.18
```

```
ID: 1D3-065   Name: COY POND                           State: MA  Date: 31OCT84
Sample Type: REGULAR            Latitude: 42-35'32"N    Longitude: 70-49'22"W
Elevation:   15   Surface Temp: 12.9  Stratified: MIXED      Site Depth:   0.9
Lake Area:     10 Watershed Area:    238 WA/LA:    25.0 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  0.9   Turbidity:   3.3     Color:   55
Closed pH: 6.90        Equil. pH: 7.88            ANC:  505.5        DOC:  6.44
Closed DIC:  7.24   Equil. DIC:  5.68    Meas. Cond: 191.8   Cal. Cond: 197.6
Ca:  406.2          Mg:  243.5       Na:  948.7         K:  41.1       NH4:  4.3
SO4:  131.9       HCO3:  459.3       Cl: 1027.1       NO3:    0.7         F:  4.4
Sum Cations: 1643.9  Sum Anions: 1624.0  Cations/Anions: 1.01   Tot. P:  10.5
Tot. Al:    75.0    Ext. Al:    4.4    Fe:  379.0      Mn:   273.0    SiO2:  7.91
```

```
ID: 1D3-068   Name: WESTBORO RESERVOIR                 State: MA  Date: 08NOV84
Sample Type: REGULAR            Latitude: 42-14'27"N    Longitude: 71-36'22"W
Elevation:. 438   Surface Temp:  7.6  Stratified: MIXED      Site Depth:   1.5
Lake Area:     22 Watershed Area:    321 WA/LA:    14.9 Hydro Type: RESERVOIR
Residence Time:  0.09  Secchi Depth:  1.5   Turbidity:   1.1     Color:   20
Closed pH: 7.04        Equil. pH: 7.63            ANC:  161.6        DOC:  2.70
Closed DIC:  2.01   Equil. DIC:  1.83    Meas. Cond: 219.1   Cal. Cond: 236.4
Ca:  294.9          Mg:  141.5       Na: 1352.4         K:  29.7       NH4:  0.0
SO4:  111.4       HCO3:  137.3       Cl: 1650.3       NO3:    1.2         F:  7.4
Sum Cations: 1818.6  Sum Anions: 1907.7  Cations/Anions: 0.95   Tot. P:   8.0
Tot. Al:    64.0    Ext. Al:    4.0    Fe:  160.0      Mn:    20.0    SiO2:  3.00
```

```
ID: 1D3-069   Name: WATABA LAKE                        State: CT  Date: 06NOV84
Sample Type: REGULAR            Latitude: 41-20'30"N    Longitude: 73-29'45"W
Elevation:  171   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   1.5
Lake Area:     17 Watershed Area:    500 WA/LA:    29.4 Hydro Type: RESERVOIR
Residence Time:  0.04  Secchi Depth:  0.8   Turbidity:   3.5     Color:   35
Closed pH: 7.77        Equil. pH: 8.48            ANC: 1844.0        DOC:  6.02
Closed DIC: 21.99   Equil. DIC: 19.22    Meas. Cond: 256.7   Cal. Cond: 278.5
Ca: 1463.6          Mg:  527.3       Na:  583.3         K:  47.8       NH4:  1.5
SO4:  188.3       HCO3: 1612.7       Cl:  563.8       NO3:    1.1         F:  2.2
Sum Cations: 2623.5  Sum Anions: 2376.7  Cations/Anions: 1.10   Tot. P:  49.5
Tot. Al:    35.3    Ext. Al:    8.7    Fe:  110.0      Mn:    12.0    SiO2: 13.02
```

```
ID: 1D3-076   Name: QUINEBAUG POND                     State: CT  Date: 13NOV84
Sample Type: REGULAR            Latitude: 41-46'29"N    Longitude: 71-53'19"W
Elevation:  197   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   2.8
Lake Area:     29 Watershed Area:    319 WA/LA:    11.1 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  3.0   Turbidity:   0.4     Color:   15
Closed pH: 6.92        Equil. pH: 7.37            ANC:  149.3        DOC:  2.80
Closed DIC:  2.05   Equil. DIC:  1.73    Meas. Cond:  79.9   Cal. Cond:  87.8
Ca:  205.1          Mg:   90.5       Na:  342.8         K:  21.2       NH4:  0.6
SO4:  180.7       HCO3:  126.1       Cl:  414.7       NO3:    0.0         F:  4.1
Sum Cations:  660.3  Sum Anions:  725.8  Cations/Anions: 0.91   Tot. P:   6.0
Tot. Al:     9.0    Ext. Al:    2.0    Fe:    0.0      Mn:     0.0    SiO2:  0.22
```

(continued)

TABLE 3-1 (continued)

```
ID: 103-083   Name: LAKE FLOREN                          State: CT  Date: 08NOV84
Sample Type: REGULAR              Latitude: 41-45'25"N    Longitude: 73-14'33"W
Elevation: 1115   Surface Temp:  7.1  Stratified: MIXED      Site Depth:    2.3
Lake Area:        7 Watershed Area:     28 WA/LA:       4.2 Hydro Type: RESERVOIR
Residence Time:  0.37  Secchi Depth:   2.5   Turbidity:   0.9       Color:    25
Closed pH: 7.11          Equil. pH: 7.69              ANC:  355.2          DOC:  5.30
Closed DIC:   1.90   Equil. DIC:   4.58    Meas. Cond:  64.0   Cal. Cond:  65.1
Ca:  252.0             Mg:  195.8        Na:   109.6           K:  24.3       NH4: 11.1
SO4:    95.6        HCO3:  375.8        Cl:    92.8         NO3:    0.8          F:  2.1
Sum Cations:  592.8  Sum Anions:   567.8  Cations/Anions: 1.04   Tot. P:  24.0
Tot. Al:    35.0    Ext. Al:    1.0     Fe:   130.0        Mn:     0.0     SiO2:  0.04

ID: 103-084   Name: HARTLAND POND                        State: CT  Date: 08NOV84
Sample Type: REGULAR              Latitude: 42-01'06"N    Longitude: 73-00'36"W
Elevation: 1155   Surface Temp:  9.4  Stratified: MIXED      Site Depth:    7.0
Lake Area:       19 Watershed Area:     70 WA/LA:       3.6 Hydro Type: DRAINAGE
Residence Time:  1.26  Secchi Depth:   5.9   Turbidity:   0.4       Color:    10
Closed pH: 6.88          Equil. pH: 7.74              ANC:   78.9          DOC:  2.50
Closed DIC:   1.24   Equil. DIC:   0.99    Meas. Cond:  32.2   Cal. Cond:  32.0
Ca:  118.3             Mg:    65.8        Na:    69.2          K:  13.0       NH4:  0.0
SO4:  111.6         HCO3:    75.2        Cl:    58.4         NO3:    1.3          F:  2.4
Sum Cations:  266.4  Sum Anions:   249.0  Cations/Anions: 1.07   Tot. P:   5.0
Tot. Al:    13.0    Ext. Al:    0.0     Fe:     0.0        Mn:     0.0     SiO2:  0.18

ID: 103-088   Name: SWANS POND                           State: MA  Date: 08NOV84
Sample Type: REGULAR              Latitude: 42-07'25"N    Longitude: 71-42'10"W
Elevation:  326   Surface Temp:  6.9  Stratified: MIXED      Site Depth:    0.9
Lake Area:       13 Watershed Area:    782 WA/LA:      59.7 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:   0.9   Turbidity:   0.3       Color:    15
Closed pH: 6.80          Equil. pH: 7.72              ANC:  212.9          DOC:  3.20
Closed DIC:   3.31   Equil. DIC:   2.52    Meas. Cond: 156.3   Cal. Cond: 164.0
Ca:  327.3             Mg:  116.8        Na:   756.5           K:  63.2       NH4:  0.0
SO4:  178.0         HCO3:  207.5        Cl:   936.6         NO3:    0.0          F: 14.5
Sum Cations: 1263.9  Sum Anions:  1336.8  Cations/Anions: 0.95   Tot. P:   7.0
Tot. Al:    46.0    Ext. Al:    8.0     Fe:    50.0        Mn:    20.0     SiO2:  2.79

ID: 103-091   Name: GREAT POND                           State: CT  Date: 06NOV84
Sample Type: REGULAR              Latitude: 41-19'01"N    Longitude: 73-28'07"W
Elevation:  507   Surface Temp: 13.2  Stratified: MIXED      Site Depth:    9.4
Lake Area:        9 Watershed Area:     67 WA/LA:       7.2 Hydro Type: RESERVOIR
Residence Time:  1.04  Secchi Depth:   3.8   Turbidity:   0.6       Color:    15
Closed pH: 7.27          Equil. pH: 8.00              ANC:  555.6          DOC:  4.47
Closed DIC:   7.00   Equil. DIC:   5.98    Meas. Cond: 107.7   Cal. Cond: 125.9
Ca:  506.5             Mg:  261.6        Na:   245.1           K:  29.5       NH4:  5.8
SO4:  232.1         HCO3:  491.2        Cl:   344.4         NO3:    1.0          F:  2.3
Sum Cations: 1048.5  Sum Anions:  1072.5  Cations/Anions: 0.98   Tot. P:  13.9
Tot. Al:     9.2    Ext. Al:    8.8     Fe:    18.0        Mn:    21.0     SiO2:  1.17

ID: 103-092   Name: INDIAN LAKE                          State: CT  Date: 06NOV84
Sample Type: REGULAR              Latitude: 41-15'03"N    Longitude: 73-00'40"W
Elevation:   33   Surface Temp: 12.3  Stratified: MIXED      Site Depth:    1.8
Lake Area:       10 Watershed Area:    150 WA/LA:      15.6 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:   0.6   Turbidity:   7.2       Color:    50
Closed pH: 7.18          Equil. pH: 8.23              ANC:  958.1          DOC:  5.00
Closed DIC:  13.35   Equil. DIC:  10.33    Meas. Cond: 250.8   Cal. Cond: 274.3
Ca:  947.6             Mg:  348.8        Na:   938.3           K:  78.2       NH4: 29.3
SO4:  407.1         HCO3:  855.[illegible]        Cl:   944.6         NO3:   20.2          F:  5.3
Sum Cations: 2342.2  Sum Anions:  2234.1  Cations/Anions: 1.05   Tot. P:  36.8
Tot. Al:    56.1    Ext. Al:    9.0     Fe:   358.0        Mn:   564.0     SiO2:  6.10
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-004   Name: BLACK POND                        State: ME  Date: 17OCT84
Sample Type: REGULAR           Latitude: 45-44'45"N    Longitude: 69-16'45"W
Elevation:  341   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   3.1
Lake Area:      50 Watershed Area:    1083 WA/LA:     21.7 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  3.0   Turbidity:   0.4      Color:    15
Closed pH: 7.27        Equil. pH: 7.52            ANC:  220.3          DOC:  6.52
Closed DIC:  2.42   Equil. DIC:  2.30    Meas. Cond:  36.4   Cal. Cond:  38.1
Ca:  229.8          Mg:    76.6        Na:    40.5         K:    6.7       NH4:  1.8
SO4:   102.2       HCO3:   195.2       Cl:     9.6        NO3:    0.1         F:  1.2
Sum Cations:   355.5  Sum Anions:   308.6  Cations/Anions: 1.15    Tot. P:   1.5
Tot. Al:    54.0    Ext. Al:   13.9     Fe:     30.0      Mn:      8.0     SiO2:  2.72

ID: 1E1-006   Name: FOURTH ROACH POND                 State: ME  Date: 19OCT84
Sample Type: REGULAR           Latitude: 45-38'30"N    Longitude: 69-15'00"W
Elevation:  399   Surface Temp:  9.9  Stratified: MIXED      Site Depth:  11.3
Lake Area:     101 Watershed Area:     811 WA/LA:      8.0 Hydro Type: DRAINAGE
Residence Time:  0.96  Secchi Depth:  4.1   Turbidity:   0.5      Color:    10
Closed pH: 6.96        Equil. pH: 7.09            ANC:    90.9         DOC:  2.88
Closed DIC:  1.21   Equil. DIC:  1.08    Meas. Cond:  22.1   Cal. Cond:  20.1
Ca:    84.7         Mg:    37.2        Na:    48.5         K:   12.2       NH4:  0.9
SO4:    61.8       HCO3:    78.3       Cl:    12.0        NO3:    0.0         F:  4.7
Sum Cations:   183.7  Sum Anions:   156.9  Cations/Anions: 1.17    Tot. P:   8.7
Tot. Al:    23.9    Ext. Al:    0.0     Fe:      6.0      Mn:      2.0     SiO2:  2.85

ID: 1E1-009   Name: PEEP LAKE                         State: ME  Date: 21OCT84
Sample Type: REGULAR           Latitude: 44-54'30"N    Longitude: 67-53'30"W
Elevation:   78   Surface Temp: 11.6  Stratified: MIXED      Site Depth:   5.5
Lake Area:      13 Watershed Area:      47 WA/LA:      3.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  5.5   Turbidity:   0.7      Color:     5
Closed pH: 6.19        Equil. pH: 6.29            ANC:    16.4         DOC:  2.41
Closed DIC:  0.25   Equil. DIC:  0.22    Meas. Cond:  14.0   Cal. Cond:  14.3
Ca:    21.6         Mg:    16.8        Na:    65.2         K:    8.2       NH4:  1.0
SO4:    45.9       HCO3:    16.2       Cl:    45.4        NO3:    0.0         F:  1.7
Sum Cations:   113.5  Sum Anions:   109.3  Cations/Anions: 1.04    Tot. P:  16.0
Tot. Al:    40.2    Ext. Al:    4.0     Fe:     34.0      Mn:      8.0     SiO2:  0.04

ID: 1E1-010   Name: SIX PONDS                         State: ME  Date: 16OCT84
Sample Type: REGULAR           Latitude: 46-00'30"N    Longitude: 68-55'30"W
Elevation:  411   Surface Temp:  9.4  Stratified: MIXED      Site Depth:   4.9
Lake Area:      10 Watershed Area:     215 WA/LA:     20.9 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  4.2   Turbidity:   0.6      Color:    20
Closed pH: 7.24        Equil. pH: 7.72            ANC:   334.4         DOC:  2.25
Closed DIC:  4.12   Equil. DIC:  3.78    Meas. Cond:  39.8   Cal. Cond:  40.8
Ca:  251.3          Mg:    49.2        Na:    79.7         K:   13.8       NH4:  1.9
SO4:    33.6       HCO3:   306.4       Cl:    10.0        NO3:    0.0         F: 17.1
Sum Cations:   395.9  Sum Anions:   367.9  Cations/Anions: 1.08    Tot. P:   1.0
Tot. Al:    20.7    Ext. Al:   12.6     Fe:     78.5      Mn:      2.5     SiO2:  4.37

ID: 1E1-011   Name: FOURTH DAVIS POND                 State: ME  Date: 19OCT84
Sample Type: REGULAR           Latitude: 45-15'30"N    Longitude: 69-23'40"W
Elevation:  149   Surface Temp:  9.7  Stratified: MIXED      Site Depth:   3.0
Lake Area:       9 Watershed Area:     461 WA/LA:     49.0 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.2   Turbidity:   0.9      Color:    85
Closed pH: 5.85        Equil. pH: 6.17            ANC:    36.5         DOC: 10.94
Closed DIC:  0.63   Equil. DIC:  0.24    Meas. Cond:  19.7   Cal. Cond:  17.1
Ca:    95.3         Mg:    34.0        Na:    37.5         K:    3.1       NH4:  1.9
SO4:    67.2       HCO3:    13.4       Cl:    11.1        NO3:    0.5         F:  1.4
Sum Cations:   173.2  Sum Anions:    93.6  Cations/Anions: 1.85    Tot. P:   9.2
Tot. Al:   175.8    Ext. Al:   29.4     Fe:     65.0      Mn:      7.0     SiO2:  0.31
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-012   Name: HOPKINS POND                          State: ME  Date: 21OCT84
Sample Type: REGULAR              Latitude: 44-47'30"N    Longitude: 68-27'15"W
Elevation:  110   Surface Temp: 12.4  Stratified: MIXED      Site Depth:  19.8
Lake Area:    175 Watershed Area:    834 WA/LA:      4.8 Hydro Type: DRAINAGE
Residence Time:  3.28  Secchi Depth:  5.0   Turbidity:   0.2     Color:     5
Closed pH: 6.76        Equil. pH: 6.95              ANC:   60.5         DOC:  2.83
Closed DIC:  0.84   Equil. DIC:  0.71    Meas. Cond:  21.7   Cal. Cond:  22.4
Ca:   83.6          Mg:   31.8       Na:   62.1          K:   7.8       NH4:  0.7
SO4:   71.1       HCO3:   58.4       Cl:   41.2        NO3:   0.0         F:  9.0
Sum Cations:  186.1  Sum Anions:  179.7  Cations/Anions: 1.04   Tot. P:   6.6
Tot. Al:   31.7    Ext. Al:   1.0     Fe:    4.0      Mn:    9.0    SiO2:  2.00
```

```
ID: 1E1-014   Name: TORREY POND                           State: ME  Date: 22OCT84
Sample Type: REGULAR              Latitude: 44-14'35"N    Longitude: 68-39'00"W
Elevation:   23   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   1.8
Lake Area:      9 Watershed Area:    347 WA/LA:     39.9 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  0.8   Turbidity:   2.0     Color:   165
Closed pH: 6.57        Equil. pH: 7.20              ANC:  153.2         DOC: 17.07
Closed DIC:  1.64   Equil. DIC:  1.00    Meas. Cond:  61.9   Cal. Cond:  56.2
Ca:  120.4          Mg:  189.2       Na:  266.1          K:   9.1       NH4:  1.2
SO4:   78.6       HCO3:   98.1       Cl:  183.9        NO3:   0.3         F:  2.1
Sum Cations:  586.2  Sum Anions:  363.0  Cations/Anions: 1.62   Tot. P:   5.4
Tot. Al:  203.3    Ext. Al:  23.3     Fe:  118.0      Mn:    0.0    SiO2:  2.73
```

```
ID: 1E1-015   Name: RAYMOND POND                          State: ME  Date: 30OCT84
Sample Type: REGULAR              Latitude: 43-58'00"N    Longitude: 70-25'45"W
Elevation:   94   Surface Temp: 12.1  Stratified: MIXED      Site Depth:  11.6
Lake Area:    139 Watershed Area:   1308 WA/LA:      9.4 Hydro Type: RESERVOIR
Residence Time:  1.03  Secchi Depth:  6.8   Turbidity:   0.3     Color:    10
Closed pH: 7.08        Equil. pH: 7.45              ANC:  199.7         DOC:  2.62
Closed DIC:  2.48   Equil. DIC:  2.32    Meas. Cond:  37.4   Cal. Cond:  39.3
Ca:  181.3          Mg:   51.1       Na:   98.9          K:   9.8       NH4:  0.9
SO4:   75.0       HCO3:  183.0       Cl:   74.9        NO3:   0.2         F:  2.7
Sum Cations:  342.0  Sum Anions:  336.0  Cations/Anions: 1.02   Tot. P:   4.0
Tot. Al:   21.4    Ext. Al:   0.1     Fe:   29.0      Mn:    7.0    SiO2:  4.12
```

```
ID: 1E1-017   Name: WEED POND                             State: ME  Date: 16OCT84
Sample Type: REGULAR              Latitude: 46-02'00"N    Longitude: 68-52'30"W
Elevation:  349   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   2.3
Lake Area:      9 Watershed Area:    355 WA/LA:     39.9 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  2.2   Turbidity:   1.1     Color:    30
Closed pH: 6.82        Equil. pH: 7.25              ANC:  120.1         DOC:  3.69
Closed DIC:  1.66   Equil. DIC:  1.32    Meas. Cond:  20.3   Cal. Cond:  19.1
Ca:   95.4          Mg:   17.4       Na:   64.5          K:   8.8       NH4:  1.9
SO4:   29.1       HCO3:  106.8       Cl:   12.4        NO3:   0.7         F:  6.9
Sum Cations:  188.2  Sum Anions:  156.0  Cations/Anions: 1.21   Tot. P:   1.7
Tot. Al:   85.2    Ext. Al:  18.2     Fe:   70.0      Mn:   11.0    SiO2:  7.02
```

```
ID: 1E1-018   Name: LILY PAD POND                         State: ME  Date: 16OCT84
Sample Type: REGULAR              Latitude: 45-52'35"N    Longitude: 69-02'30"W
Elevation:  312   Surface Temp: 10.1  Stratified: MIXED      Site Depth:   4.3
Lake Area:      8 Watershed Area:    588 WA/LA:     78.4 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  1.4   Turbidity:   1.3     Color:    45
Closed pH: 6.84        Equil. pH: 7.30              ANC:  129.1         DOC:  6.01
Closed DIC:  1.71   Equil. DIC:  1.27    Meas. Cond:  28.4   Cal. Cond:  30.0
Ca:  151.6          Mg:   43.8       Na:   66.2          K:  19.1       NH4:  0.9
SO4:   83.8       HCO3:  115.5       Cl:   16.5        NO3:   0.1         F: 13.3
Sum Cations:  281.8  Sum Anions:  229.3  Cations/Anions: 1.23   Tot. P:   5.1
Tot. Al:   93.1    Ext. Al:  23.7     Fe:   95.0      Mn:   10.0    SiO2:  4.39
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-020   Name: SECOND DEBSCONEAG LAKE             State: ME  Date: 17OCT84
Sample Type: REGULAR             Latitude: 45-46'45"N   Longitude: 69-02'30"W
Elevation:  162   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   7.3
Lake Area:      70 Watershed Area:   5407 WA/LA:     77.6 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  6.2   Turbidity:   0.4      Color:   15
Closed pH: 7.12        Equil. pH: 7.15                ANC:  123.1        DOC:  2.27
Closed DIC:  1.38   Equil. DIC:  1.44    Meas. Cond:  26.8   Cal. Cond:  27.6
Ca:  138.0          Mg:   32.7       Na:   52.4          K:  13.5      NH4:   0.8
SO4:   83.0       HCO3:  113.2       Cl:   14.1        NO3:   0.3          F: 20.9
Sum Cations:  237.4  Sum Anions:  231.5  Cations/Anions: 1.03   Tot. P:   0.0
Tot. Al:   31.1    Ext. Al:   8.8    Fe:     0.0       Mn:      7.0    SiO2:  4.70

ID: 1E1-022   Name: SECOND CHAIN LAKE                  State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 45-00'00"N   Longitude: 67-44'00"W
Elevation:   69   Surface Temp: 11.8  Stratified: MIXED      Site Depth:   6.3
Lake Area:     269 Watershed Area:   3451 WA/LA:     12.8 Hydro Type: DRAINAGE
Residence Time:  0.33  Secchi Depth:  3.5   Turbidity:   0.5      Color:   35
Closed pH: 7.04        Equil. pH: 7.07                ANC:  128.4        DOC:  5.66
Closed DIC:  1.47   Equil. DIC:  1.33    Meas. Cond:  25.9   Cal. Cond:  26.6
Ca:  130.1          Mg:   51.9       Na:   60.5          K:   8.6      NH4:   0.9
SO4:   53.4       HCO3:  113.2       Cl:   38.8        NO3:   0.1          F:  1.4
Sum Cations:  252.2  Sum Anions:  207.0  Cations/Anions: 1.22   Tot. P:  10.3
Tot. Al:   72.3    Ext. Al:   0.7    Fe:    16.0       Mn:      9.0    SiO2:  1.29

ID: 1E1-023   Name: GARDNER POND                       State: ME  Date: 16OCT84
Sample Type: REGULAR             Latitude: 46-04'28"N   Longitude: 68-39'54"W
Elevation:  226   Surface Temp: 12.7  Stratified: MIXED      Site Depth:   0.9
Lake Area:       9 Watershed Area:    246 WA/LA:     27.6 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  0.9   Turbidity:   1.2      Color:  105
Closed pH: 6.65        Equil. pH: 7.11                ANC;  111.2        DOC: 13.68
Closed DIC:  1.21   Equil. DIC:  0.81    Meas. Cond:  21.8   Cal. Cond:  20.4
Ca:  105.4          Mg:   68.9       Na:   50.9          K:   7.2      NH4:   1.5
SO4:   36.8       HCO3:   70.0       Cl:   13.6        NO3:   0.0          F:  1.4
Sum Cations:  234.2  Sum Anions:  121.7  Cations/Anions: 1.92   Tot. P:   8.1
Tot. Al:  138.4    Ext. Al:  25.2    Fe:   200.0       Mn:     11.0    SiO2:  3.84

ID: 1E1-024   Name: FROST POND                         State: ME  Date: 17OCT84
Sample Type: REGULAR             Latitude: 45-54'30"N   Longitude: 69-11'15"W
Elevation:  333   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   6.7
Lake Area:      78 Watershed Area:    606 WA/LA:      7.8 Hydro Type: DRAINAGE
Residence Time:  0.58  Secchi Depth:  3.2   Turbidity:   0.4      Color:   20
Closed pH: 7.28        Equil. pH: 7.35                ANC:  163.0        DOC:  4.40
Closed DIC:  1.80   Equil. DIC:  1.82    Meas. Cond:  31.3   Cal. Cond:  31.4
Ca:  164.9          Mg:   74.0       Na:   38.6          K:   7.5      NH4:   1.3
SO4:   91.9       HCO3:  152.3       Cl:   10.9        NO3:   0.0          F:  1.3
Sum Cations:  286.3  Sum Anions:  256.6  Cations/Anions: 1.12   Tot. P:   0.0
Tot. Al:   31.2    Ext. Al:   7.7    Fe:    54.0       Mn:      9.0    SiO2:  1.17

ID: 1E1-025   Name: BEAN PONDS (MIDDLE)                State: ME  Date: 17OCT84
Sample Type: REGULAR             Latitude: 45-48'45"N   Longitude: 69-11'30"W
Elevation:  319   Surface Temp: 11.0  Stratified: MIXED      Site Depth:   6.4
Lake Area:      15 Watershed Area:    425 WA/LA:     28.0 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  3.4   Turbidity:   0.3      Color:   35
Closed pH: 6.74        Equil. pH: 7.17                ANC:  110.0        DOC:  6.31
Closed DIC:  1.34   Equil. DIC:  1.12    Meas. Cond:  26.4   Cal. Cond:  25.1
Ca:  138.1          Mg:   53.7       Na:   32.8          K:   6.1      NH4:   1.0
SO4:   87.8       HCO3:   87.8       Cl:   10.9        NO3:   0.1          F:  0.9
Sum Cations:  231.9  Sum Anions:  187.5  Cations/Anions: 1.24   Tot. P:   9.3
Tot. Al:  135.1    Ext. Al:  16.0    Fe:    26.0       Mn:     20.0    SiO2:  2.42
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-027   Name: (NO NAME)                         State: ME  Date: 17OCT84
Sample Type: REGULAR            Latitude: 45-47'25"N    Longitude: 69-14'30"W
Elevation:  317   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   4.8
Lake Area:      10 Watershed Area:      60 WA/LA:      5.9 Hydro Type: DRAINAGE
Residence Time:  0.54  Secchi Depth:  2.5   Turbidity:   0.8      Color:   50
Closed pH: 6.83        Equil. pH: 7.21             ANC:  121.4        DOC:  7.38
Closed DIC:  1.34   Equil. DIC:  1.24    Meas. Cond:  24.8   Cal. Cond:  24.4
Ca:  139.9         Mg:   55.9       Na:   32.7        K:   7.7       NH4:  1.5
SO4:   68.6      HCO3:   99.5       Cl:    9.3      NO3:   1.0         F:  1.6
Sum Cations:  237.8  Sum Anions:  180.1  Cations/Anions: 1.32   Tot. P:  11.0
Tot. Al:  129.8    Ext. Al:  12.8    Fe:   60.0      Mn:   13.0    SiO2:  2.42

ID: 1E1-028   Name: MILLINOCKET LAKE                  State: ME  Date: 17OCT84
Sample Type: REGULAR            Latitude: 45-45'00"N    Longitude: 68-47'00"W
Elevation:  147   Surface Temp: 11.0  Stratified: MIXED      Site Depth:  16.8
Lake Area:    3309 Watershed Area:  28876 WA/LA:       8.7 Hydro Type: DRAINAGE
Residence Time:  1.32  Secchi Depth:  4.4   Turbidity:   0.4      Color:   30
Closed pH: 7.10        Equil. pH:  .24             ANC:  128.6        DOC:  3.34
Closed DIC:  1.50   Equil. DIC:  1.45    Meas. Cond:  24.3   Cal. Cond:  24.6
Ca:  124.0         Mg:   30.8       Na:   54.9        K:  14.0       NH4:  0.8
SO4:   57.6      HCO3:  112.9       Cl:   13.8      NO3:   1.8         F: 15.5
Sum Cations:  224.5  Sum Anions:  201.8  Cations/Anions: 1.11   Tot. P:   3.7
Tot. Al:   30.5    Ext. Al:   9.7    Fe:   23.0      Mn:    7.0    SiO2:  5.64

ID: 1E1-029   Name: SALMON STREAM LAKE                State: ME  Date: 17OCT84
Sample Type: REGULAR            Latitude: 45-43'30"N    Longitude: 68-29'09"W
Elevation:  122   Surface Temp: 10.9  Stratified: MIXED      Site Depth:   2.2
Lake Area:     260 Watershed Area:  11292 WA/LA:      43.4 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  2.2   Turbidity:   0.7      Color:   40
Closed pH: 7.49        Equil. pH: 7.82             ANC:  439.0        DOC:  8.79
Closed DIC:  4.86   Equil. DIC:  4.61    Meas. Cond:  60.2   Cal. Cond:  59.1
Ca:  372.3         Mg:  104.9       Na:   75.7        K:   6.0       NH4:  1.2
SO4:   72.5      HCO3:  382.0       Cl:   53.7      NO3:   0.0         F:  1.4
Sum Cations:  560.1  Sum Anions:  510.5  Cations/Anions: 1.10   Tot. P:   1.5
Tot. Al:   77.7    Ext. Al:  14.5    Fe:   28.0      Mn;    9.0    SiO2:  2.80

ID: 1E1-030   Name: LOWER JO-MARY LAKE                State: ME  Date: 17OCT84
Sample Type: REGULAR            Latitude: 45-41'00"N    Longitude: 69-00'00"W
Elevation:  150   Surface Temp: 11.3  Stratified: MIXED      Site Depth:  14.6
Lake Area:      75 Watershed Area:  21834 WA/LA:     291.1 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  5.1   Turbidity:   0.3      Color:   20
Closed pH: 6.94        Equil. pH: 7.01             ANC:   81.2        DOC:  3.54
Closed DIC:  0.88   Equil. DIC:  0.92    Meas. Cond:  20.3   Cal. Cond:  18.9
Ca:   91.5         Mg:   28.4       Na:   40.2        K:   9.5       NH4:  0.9
SO4:   58.9      HCO3:   71.4       Cl:   12.9      NO3:   0.0         F:  4.5
Sum Cations:  170.6  Sum Anions:  147.7  Cations/Anions: 1.16   Tot. P:   1.5
Tot. Al:   23.9    Ext. Al:   8.7    Fe:   14.0      Mn:    7.0    SiO2:  2.96

ID: 1E1-031   Name: DOLBY POND (NORTHERN)             State: ME  Date: 17OCT84
Sample Type: REGULAR            Latitude: 45-41'00"N    Longitude: 68-37'30"W
Elevation:  102   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   4.3
Lake Area:     788 Watershed Area:   6348 WA/LA:       8.1 Hydro Type: RESERVOIR
Residence Time:  0.43  Secchi Depth:  2.1   Turbidity:   1.1      Color:   50
Closed pH: 6.81        Equil. pH: 7.34             ANC:  145.4        DOC:  7.98
Closed DIC:  1.81   Equil. DIC:  1.46    Meas. Cond:  31.3   Cal. Cond:  32.3
Ca:  173.4         Mg:   68.5       Na:   51.5        K:  10.4       NH4:  1.1
SO4:  103.0      HCO3:  114.7       Cl:   18.0      NO3:   0.0         F:  3.2
Sum Cations:  305.0  Sum Anions:  238.9  Cations/Anions: 1.28   Tot. P:   2.9
Tot. Al:   62.0    Ext. Al:  11.4    Fe:   91.0      Mn:   14.0    SiO2:  2.84
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-034   Name: TROUT POND                         State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-28'35"N    Longitude: 69-23'30"W
Elevation:  375   Surface Temp:  8.8  Stratified: MIXED      Site Depth:    6.1
Lake Area:       7 Watershed Area:     738 WA/LA:    101.1 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  2.2   Turbidity:   0.9      Color:    40
Closed pH: 7.03        Equil. pH: 7.46               ANC:  185.9        DOC:  6.15
Closed DIC:  2.29   Equil. DIC:  1.98    Meas. Cond:  29.0   Cal. Cond:  30.6
Ca:  160.6          Mg:   78.2        Na:    51.5        K:    8.2       NH4:   1.9
SO4:   63.7       HCO3:  162.3       Cl:    13.7       NO3:    1.3         F:   1.1
Sum Cations:  300.5  Sum Anions:  242.3  Cations/Anions: 1.24   Tot. P:  10.8
Tot. Al:  128.4    Ext. Al:    1.8    Fe:   204.0      Mn:    11.0    SiO2:  4.16

ID: 1E1-036   Name: CROOKED BROOK LAKE                 State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 45-33'00"N    Longitude: 67-43'15"W
Elevation:  139   Surface Temp: 10.9  Stratified: MIXED      Site Depth:    0.9
Lake Area:      21 Watershed Area:     171 WA/LA:      8.0 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  0.9   Turbidity:   1.0      Color:    95
Closed pH: 5.73        Equil. pH: 5.80               ANC:   30.0        DOC: 14.73
Closed DIC:  0.37   Equil. DIC:  0.16    Meas. Cond:  16.2   Cal. Cond:  13.2
Ca:   64.6          Mg:   37.2        Na:    36.1        K:    0.2       NH4:   7.5
SO4:   40.9       HCO3:    7.8       Cl:     8.3       NO3:    0.0         F:   1.1
Sum Cations:  147.5  Sum Anions:   58.1  Cations/Anions: 2.54   Tot. P:  10.2
Tot. Al:  203.7    Ext. Al:   32.6    Fe:   172.0      Mn:    29.0    SiO2: 10.68

ID: 1E1-038   Name: EBEEMEE LAKE                       State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-25'30"N    Longitude: 69-00'30"W
Elevation:  130   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   16.2
Lake Area:     335 Watershed Area:   27243 WA/LA:     81.4 Hydro Type: DRAINAGE
Residence Time:  0.18  Secchi Depth:  4.3   Turbidity:   0.5      Color:    25
Closed pH: 7.02        Equil. pH: 7.18               ANC:  156.9        DOC:  3.08
Closed DIC:  1.92   Equil. DIC:  1.75    Meas. Cond:  25.3   Cal. Cond:  24.9
Ca:  109.7          Mg:   52.8        Na:    60.8        K:   10.5       NH4:   1.0
SO4:   45.0       HCO3:  138.3       Cl:    22.1       NO3:    1.6         F:   2.2
Sum Cations:  234.8  Sum Anions:  209.5  Cations/Anions: 1.12   Tot. P:  13.1
Tot. Al:   42.2    Ext. Al:    5.8    Fe:   104.0      Mn:     7.0    SiO2:  4.81

ID: 1E1-040   Name: LT.GREENWOOD POND (WEST)           State: ME  Date: 17OCT84
Sample Type: REGULAR             Latitude: 45-22'00"N    Longitude: 69-24'30"W
Elevation:  208   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   10.7
Lake Area:      31 Watershed Area:     262 WA/LA:      8.4 Hydro Type: DRAINAGE
Residence Time:  1.04  Secchi Depth:  7.8   Turbidity:   0.3      Color:     5
Closed pH: 6.64        Equil. pH: 6.73               ANC:   39.9        DOC:  1.61
Closed DIC:  0.59   Equil. DIC:  0.57    Meas. Cond:  18.0   Cal. Cond:  19.4
Ca:   65.8          Mg:   42.5        Na:    34.5        K:    6.6       NH4:   0.2
SO4:   93.7       HCO3:   43.4       Cl:    18.0       NO3:    0.2         F:   1.1
Sum Cations:  149.8  Sum Anions:  156.4  Cations/Anions: 0.96   Tot. P:   1.9
Tot. Al:   16.7    Ext. Al:    7.7    Fe:     4.0      Mn:    10.0    SiO2:  1.83

ID: 1E1-044   Name: SOUTH POND                         State: ME  Date: 17OCT84
Sample Type: REGULAR             Latitude: 45-20'30"N    Longitude: 69-27'25"W
Elevation:  210   Surface Temp: 11.2  Stratified: MIXED      Site Depth:    5.8
Lake Area:       6 Watershed Area:      39 WA/LA:      6.5 Hydro Type: DRAINAGE
Residence Time:  0.71  Secchi Depth:  3.5   Turbidity:   0.6      Color:    35
Closed pH: 6.99        Equil. pH: 7.11               ANC:  128.2        DOC:  5.84
Closed DIC:  1.43   Equil. DIC:  1.31    Meas. Cond:  23.2   Cal. Cond:  23.5
Ca:  129.6          Mg:   57.2        Na:    32.2        K:    3.2       NH4:   1.1
SO4:   66.1       HCO3:  104.7       Cl:    10.3       NO3:    0.2         F:   0.9
Sum Cations:  223.4  Sum Anions:  182.3  Cations/Anions: 1.23   Tot. P:   2.3
Tot. Al:   59.3    Ext. Al:   12.0    Fe:    15.0      Mn:    10.0    SiO2:  0.93
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-045   Name: BIG GRAPEVINE POND                State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-18'45"N    Longitude: 69-15'30"W
Elevation:  216   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   0.9
Lake Area:       5 Watershed Area:     75 WA/LA:     16.7 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  0.9  Turbidity:   1.3      Color:    30
Closed pH: 6.29        Equil. pH: 6.77              ANC:    54.5        DOC:  6.94
Closed DIC:  0.89   Equil. DIC:  0.53    Meas. Cond:  15.2   Cal. Cond:  14.7
Ca:   58.9          Mg:    33.5       Na:    38.2         K:    3.0       NH4:  1.5
SO4:   51.6       HCO3:    41.4       Cl:    11.3       NO3:    1.2         F:  1.2
Sum Cations:  135.5  Sum Anions:  106.7  Cations/Anions: 1.27   Tot. P:  15.2
Tot. Al:   63.4    Ext. Al:    6.5    Fe:    68.0      Mn:    21.0    SiO2:  0.37

ID: 1E1-046   Name: LITTLE ROUND POND                 State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 45-18'48"N    Longitude: 68-26'55"W
Elevation:  114   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   3.6
Lake Area:      33 Watershed Area:    192 WA/LA:      5.8 Hydro Type: DRAINAGE
Residence Time:  0.59  Secchi Depth:  4.0  Turbidity:   0.7      Color:    20
Closed pH: 6.53        Equil. pH: 6.70              ANC:    51.4        DOC:  4.16
Closed DIC:  0.71   Equil. DIC:  0.54    Meas. Cond:  18.6   Cal. Cond:  19.7
Ca:   78.6          Mg:    27.6       Na:    53.5         K:    8.9       NH4:  1.4
SO4:   78.6       HCO3:    43.0       Cl:    22.1       NO3:    0.0         F:  2.8
Sum Cations:  170.4  Sum Anions:  146.6  Cations/Anions: 1.16   Tot. P:   7.4
Tot. Al:   41.5    Ext. Al:    1.0    Fe:     6.0      Mn:     0.0    SiO2:  1.88

ID: 1E1-047   Name: KEG LAKE                          State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 45-19'30"N    Longitude: 68-03'15"W
Elevation;   91   Surface Temp: 11.7  Stratified: MIXED      Site Depth:  10.0
Lake Area:     146 Watershed Area:    842 WA/LA:      5.8 Hydro Type: DRAINAGE
Residence Time:  1.34  Secchi Depth:  3.9  Turbidity:   0.5      Color:    15
Closed pH: 6.91        Equil. pH: 7.08              ANC:    98.1        DOC:  4.18
Closed DIC:  1.29   Equil. DIC:  1.05    Meas. Cond:  23.9   Cal. Cond:  25.1
Ca:  114.7          Mg:    40.2       Na:    59.9         K:   10.5       NH4:  1.0
SO4:   72.4       HCO3:    90.9       Cl:    30.1       NO3:    0.0         F:  2.4
Sum Cations:  226.4  Sum Anions:  196.0  Cations/Anions: 1.16   Tot. P:   7.5
Tot. Al:   61.7    Ext. Al:    0.0    Fe:     8.0      Mn:    12.0    SiO2:  2.43

ID: 1E1-050   Name: LOWER OXBROOK LAKE                State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 45-17'00"N    Longitude: 67-50'30"W
Elevation:  116   Surface Temp: 11.6  Stratified: MIXED      Site Depth:   6.7
Lake Area:     141 Watershed Area:   1699 WA/LA:     12.1 Hydro Type: DRAINAGE
Residence Time:  0.47  Secchi Depth:  5.8  Turbidity:   0.5      Color:    20
Closed pH: 6.64        Equil. pH: 6.84              ANC:    51.9        DOC:  4.03
Closed DIC:  0.60   Equil. DIC:  0.54    Meas. Cond:  20.3   Cal. Cond:  20.0
Ca:   79.7          Mg:    31.8       Na:    52.5         K:    9.5       NH4:  0.8
SO4:   72.6       HCO3:    44.0       Cl:    28.6       NO3:    0.0         F:  3.4
Sum Cations:  174.5  Sum Anions:  148.7  Cations/Anions: 1.17   Tot. P:   5.8
Tot. Al:   48.5    Ext. Al:    0.5    Fe:     0.0      Mn:     5.0    SiO2:  2.04

ID: 1E1-051   Name: WHETSTONE POND                    State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-13'00"N    Longitude: 69-33'30"W
Elevation:  215   Surface Temp: 11.0  Stratified: STRONG     Site Depth:  38.1
Lake Area:     101 Watershed Area:    570 WA/LA:      5.7 Hydro Type: DRAINAGE
Residence Time:  5.27  Secchi Depth:  4.5  Turbidity:   0.2      Color:    10
Closed pH: 6.87        Equil. pH: 7.03              ANC:    82.5        DOC:  3.35
Closed DIC:  1.05   Equil. DIC:  0.92    Meas. Cond:  19.6   Cal. Cond:  20.0
Ca:   92.9          Mg:    35.7       Na:    38.8         K:    7.8       NH4:  1.0
SO4:   65.0       HCO3:    75.9       Cl:    16.7       NO3:    1.0         F:  1.2
Sum Cations:  176.3  Sum Anions:  159.8  Cations/Anions: 1.10   Tot. P:   3.1
Tot. Al:   61.5    Ext. Al:    2.9    Fe:     0.0      Mn:     0.0    SiO2:  1.48
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-052   Name: SPRING LAKE                          State: ME  Date: 21OCT84
Sample Type: REGULAR                Latitude: 45-13'00"N   Longitude: 68-13'00"W
Elevation:  102  Surface Temp: 12.4  Stratified: MIXED      Site Depth:  13.4
Lake Area:     176 Watershed Area:     578 WA/LA:     3.3 Hydro Type: DRAINAGE
Residence Time:  2.98  Secchi Depth:  4.9   Turbidity:   0.4      Color:   20
Closed pH: 6.63        Equil. pH: 6.91                ANC:   64.4        DOC:  3.72
Closed DIC:  0.91   Equil. DIC:  0.70    Meas. Cond:  20.8   Cal. Cond:  20.6
Ca:   73.7             Mg:   33.2        Na:   58.2         K:  14.1       NH4:  1.1
SO4:   72.5       HCO3:   49.9        Cl:   27.7        NO3:   0.6          F:  3.0
Sum Cations:  180.4  Sum Anions:  153.7  Cations/Anions: 1.17   Tot. P:   6.0
Tot. Al:   27.8    Ext. Al:   1.2     Fe:     9.0      Mn:      4.0    SiO2:  1.38

ID: 1E1-053   Name: PALMER POND                          State: ME  Date: 19OCT84
Sample Type: REGULAR                Latitude: 45-10'00"N   Longitude: 69-43'50"W
Elevation:  382  Surface Temp: 10.7  Stratified: WEAK       Site Depth:  11.8
Lake Area:      15 Watershed Area:     249 WA/LA:    17.2 Hydro Type: DRAINAGE
Residence Time:  0.59  Secchi Depth:  2.0   Turbidity:   1.0      Color:   55
Closed pH: 6.72        Equil. pH: 7.10                ANC:  103.9        DOC:  8.97
Closed DIC:  1.26   Equil. DIC:  0.96    Meas. Cond:  24.8   Cal. Cond:  22.6
Ca:  153.1             Mg:   33.9        Na:   32.0         K:   9.3       NH4:  1.2
SO4:   61.5       HCO3:   71.9        Cl:   11.1        NO3:   2.5          F:  0.9
Sum Cations:  229.8  Sum Anions:  147.9  Cations/Anions: 1.55   Tot. P:   8.4
Tot. Al:  507.3    Ext. Al:  18.4     Fe:    26.0      Mn:      7.0    SiO2:  1.92

ID: 1E1-054   Name: DUCK LAKE                            State: ME  Date: 21OCT84
Sample Type: REGULAR                Latitude: 45-09'00"N   Longitude: 68-06'00"W
Elevation:  158  Surface Temp: 12.1  Stratified: MIXED      Site Depth:  25.9
Lake Area:     475 Watershed Area:    1588 WA/LA:     3.3 Hydro Type: DRAINAGE
Residence Time:  5.73  Secchi Depth:  7.8   Turbidity:   0.3      Color:    5
Closed pH: 6.63        Equil. pH: 6.76                ANC:   41.3        DOC:  2.42
Closed DIC:  0.30   Equil. DIC:  0.44    Meas. Cond:  20.3   Cal. Cond:  21.8
Ca:   77.6             Mg:   26.5        Na:   58.9         K:  11.0       NH4:  0.8
SO4:   92.5       HCO3:   38.2        Cl:   33.1        NO3:   0.1          F:  3.7
Sum Cations:  175.0  Sum Anions:  167.7  Cations/Anions: 1.04   Tot. P:   3.5
Tot. Al:   32.4    Ext. Al:   3.5     Fe:    18.0      Mn:      7.0    SiO2:  2.18

ID: 1E1-055   Name: OTTER POND                           State: ME  Date: 19OCT84
Sample Type: REGULAR                Latitude: 45-05'52"N   Longitude: 69-41'35"W
Elevation:  283  Surface Temp: 10.4  Stratified: MIXED      Site Depth:   2.0
Lake Area:       7 Watershed Area:      16 WA/LA:     2.3 Hydro Type: DRAINAGE
Residence Time:  0.57  Secchi Depth:  2.0   Turbidity:   0.3      Color:    5
Closed pH: 6.73        Equil. pH: 7.18                ANC:   87.8        DOC:  4.44
Closed DIC:  1.28   Equil. DIC:  1.01    Meas. Cond:  83.4   Cal. Cond:  79.3
Ca:  145.2             Mg:   73.5        Na:  463.7         K:   9.8       NH4:  1.6
SO4:   90.1       HCO3:   79.0        Cl:  418.4        NO3:   0.0          F:  0.8
Sum Cations:  693.9  Sum Anions:  588.3  Cations/Anions: 1.18   Tot. P:   8.3
Tot. Al:   21.1    Ext. Al:   0.0     Fe:     0.0      Mn:      0.0    SiO2:  0.18

ID: 1E1-056   Name: GETCHEL LAKES (NORTHERN)             State: ME  Date: 21OCT84
Sample Type: REGULAR                Latitude: 45-08'00"N   Longitude: 67-52'40"W
Elevation:   92  Surface Temp: 11.3  Stratified: MIXED      Site Depth:   2.1
Lake Area:      23 Watershed Area:      85 WA/LA:     3.8 Hydro Type: DRAINAGE
Residence Time:  0.38  Secchi Depth:  2.1   Turbidity:   0.6      Color:   35
Closed pH: 6.99        Equil. pH: 7.53                ANC:  198.8        DOC:  4.00
Closed DIC:  2.61   Equil. DIC:  2.11    Meas. Cond:  30.4   Cal. Cond:  33.4
Ca:  169.4             Mg:   44.0        Na:   77.3         K:   9.6       NH4:  1.1
SO4:   51.8       HCO3:  208.3        Cl:   34.7        NO3:   0.0          F:  3.3
Sum Cations:  301.3  Sum Anions:  298.4  Cations/Anions: 1.01   Tot. P:  11.0
Tot. Al:   19.5    Ext. Al:   0.0     Fe:   238.0      Mn:     36.0    SiO2:  3.38
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-057   Name: OLAMON POND                          State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 45-01'40"N    Longitude: 68-23'40"W
Elevation:   88   Surface Temp: 10.9  Stratified: MIXED     Site Depth:   6.0
Lake Area:        5 Watershed Area:    212 WA/LA:    42.4 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  0.7  Turbidity:   1.2      Color:   125
Closed pH: 6.42       Equil. pH: 7.32               ANC:  192.4        DOC: 15.59
Closed DIC:  3.02   Equil. DIC:  1.63    Meas. Cond:  34.0   Cal. Cond:  32.7
Ca:  211.6          Mg:   82.2       Na:   59.0        K:   9.7      NH4:   2.1
SO4:   45.2       HCO3:  134.8       Cl:   28.5      NO3:   0.3        F:   1.6
Sum Cations:  364.9  Sum Anions:  210.4  Cations/Anions: 1.73   Tot. P:  21.1
Tot. Al:  137.3    Ext. Al:  13.4    Fe:  273.0     Mn:   52.0    SiO2:  3.50
```

```
ID: 1E1-058   Name: LOWER SABAGO LAKE                    State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 45-00'00"N    Longitude: 68-01'30"W
Elevation:  104   Surface Temp: 11.8  Stratified: MIXED     Site Depth:   7.8
Lake Area:      310 Watershed Area:   6148 WA/LA:    19.9 Hydro Type: DRAINAGE
Residence Time:  0.34  Secchi Depth:  2.9  Turbidity:   0.5      Color:    50
Closed pH: 6.80       Equil. pH: 7.14               ANC:   96.1        DOC:  6.05
Closed DIC:  1.12   Equil. DIC:  0.97    Meas. Cond:  23.1   Cal. Cond:  23.4
Ca:   88.5          Mg:   32.5       Na:   80.6        K:  16.9      NH4:   0.9
SO4:   48.8       HCO3:   82.7       Cl:   41.6      NO3:   0.3        F:   4.6
Sum Cations:  219.5  Sum Anions:  178.0  Cations/Anions: 1.23   Tot. P:  13.5
Tot. Al:   57.5    Ext. Al:   8.1    Fe:   37.0     Mn:   11.0    SiO2:  4.47
```

```
ID: 1E1-059   Name: POSSUM LAKE                          State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 45-01'00"N    Longitude: 67-41'45"W
Elevation:   81   Surface Temp: 11.7  Stratified: MIXED     Site Depth:   6.0
Lake Area:        9 Watershed Area:     26 WA/LA:     2.8 Hydro Type: DRAINAGE
Residence Time:  1.12  Secchi Depth:  4.8  Turbidity:   0.4      Color:    10
Closed pH: 6.39       Equil. pH: 6.69               ANC:   48.8        DOC:  3.89
Closed DIC:  0.56   Equil. DIC:  0.42    Meas. Cond:  20.6   Cal. Cond:  19.4
Ca:   55.1          Mg:   31.9       Na:   66.7        K:   8.0      NH4:   1.0
SO4:   67.4       HCO3:   35.1       Cl:   42.8      NO3:   0.0        F:   1.4
Sum Cations:  163.0  Sum Anions:  146.6  Cations/Anions: 1.11   Tot. P:   7.3
Tot. Al:   30.8    Ext. Al:   0.2    Fe:    8.0     Mn:   15.0    SiO2:  0.27
```

```
ID: 1E1-060   Name: BRACEY POND                          State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 44-57'45"N    Longitude: 68-07'20"W
Elevation:  117   Surface Temp: 11.7  Stratified: MIXED     Site Depth:   8.7
Lake Area:        8 Watershed Area:     75 WA/LA:     9.6 Hydro Type: DRAINAGE
Residence Time:  0.74  Secchi Depth:  4.6  Turbidity:   0.5      Color:    20
Closed pH: 6.72       Equil. pH: 7.29               ANC:  106.9        DOC:  4.03
Closed DIC:  1.42   Equil. DIC:  1.21    Meas. Cond:  23.1   Cal. Cond:  23.5
Ca:  114.8          Mg:   33.6       Na:   54.6        K:   9.3      NH4:   1.2
SO4:   35.1       HCO3:   96.9       Cl:   54.3      NO3:   0.2        F:   1.3
Sum Cations:  213.6  Sum Anions:  188.0  Cations/Anions: 1.14   Tot. P:   8.2
Tot. Al:   46.2    Ext. Al:   0.0    Fe:   65.0     Mn:   20.0    SiO2:  1.34
```

```
ID: 1E1-061   Name: LITTLE SEAVEY LAKE                   State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 44-56'15"N    Longitude: 67-38'00"W
Elevation:   64   Surface Temp: 11.3  Stratified: MIXED     Site Depth:   4.2
Lake Area:       42 Watershed Area:    645 WA/LA:    15.3 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  3.4  Turbidity:   0.5      Color:    25
Closed pH: 6.75       Equil. pH: 7.00               ANC:   80.6        DOC:  5.05
Closed DIC:  0.99   Equil. DIC:  0.81    Meas. Cond:  40.4   Cal. Cond:  39.8
Ca:   87.4          Mg:   37.9       Na:  213.6        K:   5.8      NH4:   1.1
SO4:   59.7       HCO3:   57.2       Cl:  182.5      NO3:   0.2        F:   1.7
Sum Cations:  346.0  Sum Anions:  301.3  Cations/Anions: 1.15   Tot. P:  13.8
Tot. Al:   53.8    Ext. Al:   5.6    Fe:   77.0     Mn:    7.0    SiO2:  1.98
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-062   Name: LONG POND                          State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 44-55'00"N   Longitude: 68-16'11"W
Elevation:  119   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   8.5
Lake Area:     106 Watershed Area:     777 WA/LA:     7.4 Hydro Type: DRAINAGE
Residence Time:  0.95  Secchi Depth:  5.4   Turbidity:   0.3     Color:    20
Closed pH: 6.99        Equil. pH: 7.16              ANC:   91.6        DOC:  3.02
Closed DIC:  1.06   Equil. DIC:  0.99    Meas. Cond:  24.3   Cal. Cond:  25.2
Ca:   96.4           Mg:    36.7       Na:    75.1         K:  10.4     NH4:   0.8
SO4:    64.3      HCO3:    85.7       Cl:    44.6       NO3:    0.0        F:   9.6
Sum Cations:  219.5  Sum Anions:  204.3  Cations/Anions: 1.07   Tot. P:   11.7
Tot. Al:   30.6    Ext. Al:    0.0    Fe:    14.0     Mn:      4.0    SiO2:  1.75
```

```
ID: 1E1-063   Name: SEAVEY LAKE                        State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 44-54'20"N   Longitude: 67-37'30"W
Elevation:   51   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   5.2
Lake Area:      36 Watershed Area:    1614 WA/LA:    44.3 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  2.3   Turbidity:   0.8     Color:    65
Closed pH: 6.59        Equil. pH: 7.01              ANC:   89.9        DOC:  8.36
Closed DIC:  1.12   Equil. DIC:  0.77    Meas. Cond:  32.1   Cal. Cond:  32.1
Ca:   93.8           Mg:    37.8       Na:   155.6         K:   7.6     NH4:   1.2
SO4:    42.4      HCO3:    72.2       Cl:   121.8       NO3:    0.4        F:   1.7
Sum Cations:  296.3  Sum Anions:  238.4  Cations/Anions: 1.24   Tot. P:   10.4
Tot. Al:  150.0    Ext. Al:   18.1    Fe:   114.0     Mn:      4.0    SiO2:  3.35
```

```
ID: 1E1-066   Name: FULTON LAKE                        State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 44-51'00"N   Longitude: 67-33'30"W
Elevation:   52   Surface Temp: 11.2  Stratified: MIXED      Site Depth:   2.7
Lake Area:      45 Watershed Area:     153 WA/LA:     3.4 Hydro Type: DRAINAGE
Residence Time:  0.43  Secchi Depth:  3.5   Turbidity:   0.7     Color:    10
Closed pH: 6.58        Equil. pH: 6.84              ANC:   46.4        DOC:  2.47
Closed DIC:  0.67   Equil. DIC:  0.53    Meas. Cond:  21.9   Cal. Cond:  22.5
Ca:   59.5           Mg:    34.6       Na:    76.3         K:   9.1     NH4:   1.2
SO4:    61.3      HCO3:    48.4       Cl:    70.1       NO3:    0.0        F:   0.8
Sum Cations:  181.0  Sum Anions:  180.6  Cations/Anions: 1.00   Tot. P:    6.2
Tot. Al:   29.4    Ext. Al:    0.0    Fe:    11.0     Mn:      6.0    SiO2:  1.91
```

```
ID: 1E1-067   Name: SPECTACLE POND                     State: ME  Date: 22OCT84
Sample Type: REGULAR             Latitude: 44-45'00"N   Longitude: 68-13'00"W
Elevation:   78   Surface Temp: 11.9  Stratified: MIXED      Site Depth:   4.9
Lake Area:     702 Watershed Area:   13048 WA/LA:    18.6 Hydro Type: DRAINAGE
Residence Time:  0.18  Secchi Depth:  4.1   Turbidity:   0.6     Color:    35
Closed pH: 6.70        Equil. pH: 6.96              ANC:   68.8        DOC:  5.12
Closed DIC:  0.86   Equil. DIC:  0.66    Meas. Cond:  23.6   Cal. Cond:  24.0
Ca:   89.8           Mg:    35.8       Na:    85.5         K:  10.8     NH4:   0.4
SO4:    53.3      HCO3:    60.1       Cl:    55.6       NO3:    0.0        F:   6.7
Sum Cations:  222.4  Sum Anions:  175.9  Cations/Anions: 1.26   Tot. P:    6.3
Tot. Al:  123.4    Ext. Al:   13.7    Fe:    25.0     Mn:      0.0    SiO2:  2.45
```

```
ID: 1E1-068   Name: GEORGE POND                        State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 44-44'15"N   Longitude: 68-38'00"W
Elevation:   46   Surface Temp: 10.5  Stratified: MIXED      Site Depth:   4.8
Lake Area:       5 Watershed Area:     451 WA/LA:    98.0 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  1.5   Turbidity:   1.2     Color:    65
Closed pH: 6.89        Equil. pH: 7.79              ANC:  487.0        DOC:  9.15
Closed DIC:  5.86   Equil. DIC:  4.55    Meas. Cond:  66.9   Cal. Cond:  68.2
Ca:  374.3           Mg:    78.8       Na:   157.0         K:  14.0     NH4:   1.6
SO4:    82.9      HCO3:   390.4       Cl:   110.3       NO3:    0.6        F:   3.6
Sum Cations:  625.8  Sum Anions:  588.4  Cations/Anions: 1.06   Tot. P:   15.8
Tot. Al:   67.1    Ext. Al:    2.2    Fe:    86.0     Mn:     16.0    SiO2:  2.73
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-069   Name: GRASSY POND(SPRINGY POND)       State: ME  Date: 22OCT84
Sample Type: REGULAR              Latitude: 44-45'30"N    Longitude: 68-29'30"W
Elevation:   84   Surface Temp: 11.6  Stratified: MIXED      Site Depth:   2.1
Lake Area:      48 Watershed Area:    1106 WA/LA:     23.2 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  2.1  Turbidity:   0.7      Color:   20
Closed pH: 6.90       Equil. pH: 7.21              ANC:  108.5         DOC:  4.76
Closed DIC:  1.18  Equil. DIC:  1.10   Meas. Cond:  25.8   Cal. Cond:  27.3
Ca:   96.4          Mg:   43.4       Na:   93.1         K:   8.7        NH4:  0.5
SO4:   55.6      HCO3:   99.5       Cl:    58.4       NO3:   1.2          F:  9.0
Sum Cations:  242.2  Sum Anions:  223.8  Cations/Anions: 1.08   Tot. P:   3.5
Tot. Al:   56.1    Ext. Al:    5.5    Fe:    13.0      Mn:     3.5    SiO2:  0.24

ID: 1E1-070   Name: THURSTON POND                   State: ME  Date: 23OCT84
Sample Type: REGULAR              Latitude: 44-40'00"N    Longitude: 68-43'30"W
Elevation:   69   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   8.8
Lake Area:      52 Watershed Area:     622 WA/LA:     12.0 Hydro Type: DRAINAGE
Residence Time:  0.64  Secchi Depth:  4.8  Turbidity:   0.6      Color:   15
Closed pH: 6.72       Equil. pH: 6.93              ANC:   63.8         DOC:  2.87
Closed DIC:  0.75  Equil. DIC:  0.61   Meas. Cond:  21.7   Cal. Cond:  22.7
Ca:   72.1          Mg:   35.5       Na:   76.0         K:   7.0        NH4:  0.5
SO4:   71.9      HCO3:   57.3       Cl:    48.0       NO3:   0.1          F:  1.6
Sum Cations:  191.2  Sum Anions:  179.0  Cations/Anions: 1.07   Tot. P:   4.9
Tot. Al:   22.1    Ext. Al:    3.8    Fe:    67.0      Mn:     9.0    SiO2:  1.75

ID: 1E1-071   Name: LITTLE HATCASE POND             State: ME  Date: 21OCT84
Sample Type: REGULAR              Latitude: 44-42'10"N    Longitude: 68-31'30"W
Elevation:   81   Surface Temp: 12.7  Stratified: MIXED      Site Depth:   1.2
Lake Area:      10 Watershed Area:    2313 WA/LA:    238.4 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  1.2  Turbidity:   0.4      Color:    5
Closed pH: 6.61       Equil. pH: 7.00              ANC:   62.0         DOC:  2.90
Closed DIC:  0.94  Equil. DIC:  0.67   Meas. Cond:  23.8   Cal. Cond:  25.3
Ca:   92.0          Mg:   35.0       Na:   74.7         K:   8.2        NH4:  1.3
SO4:   83.3      HCO3:   55.7       Cl:    50.5       NO3:   0.0          F:  9.0
Sum Cations:  211.4  Sum Anions:  198.5  Cations/Anions: 1.06   Tot. P:   4.3
Tot. Al:   38.7    Ext. Al:    3.7    Fe:    31.0      Mn:     5.0    SiO2:  1.88

ID: 1E1-072   Name: SCHOODIC LAKE                   State: ME  Date: 22OCT84
Sample Type: REGULAR              Latitude: 44-41'45"N    Longitude: 67-53'30"W
Elevation:   68   Surface Temp: 12.2  Stratified: MIXED      Site Depth:  11.0
Lake Area:     147 Watershed Area:     414 WA/LA:      2.8 Hydro Type: DRAINAGE
Residence Time:  2.04  Secchi Depth:  5.0  Turbidity:   0.6      Color:    5
Closed pH: 7.04       Equil. pH: 7.17              ANC:   95.8         DOC:  1.46
Closed DIC:  1.19  Equil. DIC:  1.10   Meas. Cond:  23.3   Cal. Cond:  24.9
Ca:   75.7          Mg:   28.9       Na:   96.3         K:  10.9        NH4:  0.1
SO4:   38.2      HCO3:  103.8       Cl:    66.5       NO3:   1.6          F:  5.5
Sum Cations:  212.0  Sum Anions:  215.8  Cations/Anions: 0.98   Tot. P:   7.5
Tot. Al:   31.7    Ext. Al:    4.1    Fe:     0.0      Mn:    11.0    SiO2:  0.53

ID: 1E1-073   Name: GEORGES POND                    State: ME  Date: 23OCT84
Sample Type: REGULAR              Latitude: 44-37'00"N    Longitude: 68-14'30"W
Elevation:   50   Surface Temp: 12.4  Stratified: MIXED      Site Depth:  11.0
Lake Area:     143 Watershed Area:     365 WA/LA:      2.5 Hydro Type: DRAINAGE
Residence Time:  2.26  Secchi Depth:  7.3  Turbidity:   1.0      Color:   10
Closed pH: 6.78       Equil. pH: 6.98              ANC:   64.8         DOC:  2.67
Closed DIC:  0.75  Equil. DIC:  0.63   Meas. Cond:  24.5   Cal. Cond:  26.5
Ca:   54.4          Mg:   42.4       Na:  108.4         K:  11.8        NH4:  0.8
SO4:   61.2      HCO3:   64.3       Cl:    83.9       NO3:   0.1          F:  6.9
Sum Cations:  218.0  Sum Anions:  216.4  Cations/Anions: 1.01   Tot. P:   8.2
Tot. Al:   37.3    Ext. Al:    3.5    Fe:    27.0      Mn:     3.0    SiO2:  1.42
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-074   Name: CRAIG POND                          State: ME  Date: 22OCT84
Sample Type: REGULAR              Latitude: 44-35'00"N    Longitude: 68-40'00"W
Elevation:    66   Surface Temp: 13.5  Stratified: MIXED      Site Depth:  14.6
Lake Area:      92 Watershed Area:     321 WA/LA:      3.5 Hydro Type: DRAINAGE
Residence Time:  3.05  Secchi Depth:  9.3   Turbidity:   0.4      Color:     5
Closed pH: 6.97       Equil. pH: 7.04               ANC:    75.0        DOC:  1.60
Closed DIC:  0.92   Equil. DIC:  0.85    Meas. Cond:  25.3   Cal. Cond:  27.3
Ca:   89.8          Mg:    36.4      Na:   84.4         K:    8.7       NH4:  0.0
SO4:   80.3       HCO3:    79.7      Cl:   59.7       NO3:    1.9         F:  7.7
Sum Cations:  219.3  Sum Anions:  229.4  Cations/Anions: 0.96   Tot. P:    1.2
Tot. Al:   54.9    Ext. Al:    2.9    Fe:     0.0     Mn:     0.0    SiO2:  1.42

ID: 1E1-076   Name: WIGHT POND                          State: ME  Date: 22OCT84
Sample Type: REGULAR              Latitude: 44-28'15"N    Longitude: 68-40'30"W
Elevation:     7   Surface Temp: 12.4  Stratified: MIXED      Site Depth:   6.4
Lake Area:      78 Watershed Area:    2696 WA/LA:     34.7 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  2.8   Turbidity:   0.6      Color:    30
Closed pH: 6.80       Equil. pH: 7.23               ANC:   117.6        DOC:  6.82
Closed DIC:  1.43   Equil. DIC:  1.08    Meas. Cond:  35.8   Cal. Cond:  36.8
Ca:  117.4          Mg:    55.7      Na:  149.7         K:    9.9       NH4:  0.9
SO4:   61.6       HCO3:   101.7      Cl:  116.5       NO3:    0.1         F:  2.3
Sum Cations:  333.8  Sum Anions:  282.2  Cations/Anions: 1.18   Tot. P:    8.3
Tot. Al:   45.8    Ext. Al:    7.6    Fe:   100.0     Mn:     0.0    SiO2:  2.98

ID: 1E1-077   Name: PARKER POND                         State: ME  Date: 22OCT84
Sample Type: REGULAR              Latitude: 44-22'20"N    Longitude: 68-42'30"W
Elevation:     6   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   4.8
Lake Area:      27 Watershed Area:    1008 WA/LA:     37.3 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  1.3   Turbidity:   0.8      Color:    90
Closed pH: 6.54       Equil. pH: 7.02               ANC:    93.3        DOC: 10.55
Closed DIC:  1.11   Equil. DIC:  0.71    Meas. Cond:  30.5   Cal. Cond:  30.4
Ca:   72.1          Mg:    59.4      Na:  155.6         K:   11.0       NH4:  0.6
SO4:   52.7       HCO3:    68.0      Cl:   87.9       NO3:    0.3         F:  3.7
Sum Cations:  298.9  Sum Anions:  212.6  Cations/Anions: 1.41   Tot. P:   16.8
Tot. Al:  125.7    Ext. Al:   28.9    Fe:   115.0     Mn:     0.0    SiO2:  2.41

ID: 1E1-078   Name: MEADOW POND                         State: ME  Date: 23OCT84
Sample Type: REGULAR              Latitude: 44-21'25"N    Longitude: 68-54'00"W
Elevation:    20   Surface Temp: 12.8  Stratified: MIXED      Site Depth:   4.9
Lake Area:       7 Watershed Area:      75 WA/LA:     10.6 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  0.9   Turbidity:   1.8      Color:    65
Closed pH: 6.82       Equil. pH: 7.56               ANC:   235.5        DOC:  8.30
Closed DIC:  2.94   Equil. DIC:  2.33    Meas. Cond:  50.0   Cal. Cond:  51.9
Ca:  160.8          Mg:   128.3      Na:  181.2         K:   11.2       NH4:  0.8
SO4:   63.6       HCO3:   201.8      Cl:  148.9       NO3:    0.1         F:  1.5
Sum Cations:  482.4  Sum Anions:  416.   Cations/Anions: 1.16   Tot. P:   14.8
Tot. Al:  138.3    Ext. Al:    9.2    Fe:   343.0     Mn:    18.0    SiO2:  1.11

ID: 1E1-079   Name: UPPER HADLOCK POND                  State: ME  Date: 22OCT84
Sample Type: REGULAR              Latitude: 44-19'20"N    Longitude: 68-17'15"W
Elevation:    69   Surface Temp: 12.2  Stratified: MIXED      Site Depth:  11.5
Lake Area:      15 Watershed Area:     334 WA/LA:     22.6 Hydro Type: DRAINAGE
Residence Time:  0.35  Secchi Depth:  6.8   Turbidity:   0.3      Color:    15
Closed pH: 6.67       Equil. pH: 6.93               ANC:    54.6        DOC:  3.07
Closed DIC:  0.73   Equil. DIC:  0.58    Meas. Cond:  40.7   Cal. Cond:  43.0
Ca:   92.8          Mg:    40.7      Na:  211.3         K:    7.2       NH4:  0.4
SO4:   95.5       HCO3:    56.2      Cl:  179.4       NO3:    0.4         F:  3.9
Sum Cations:  352.8  Sum Anions:  335.3  Cations/Anions: 1.05   Tot. P:    2.2
Tot. Al:   25.0    Ext. Al:    3.5    Fe:     4.0     Mn:     0.0    SiO2:  1.35
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-082   Name: STEVENS POND                         State: ME  Date: 23OCT84
Sample Type: REGULAR            Latitude: 44-22'00"N    Longitude: 69-18'00"W
Elevation:   93   Surface Temp: 13.1  Stratified: WEAK        Site Depth:  11.5
Lake Area:    138 Watershed Area:   1285 WA/LA:      9.3 Hydro Type: RESERVOIR
Residence Time:  1.06  Secchi Depth:  3.7   Turbidity:   0.5      Color:   10
Closed pH: 6.74        Equil. pH: 7.16             ANC:   96.8          DOC:  2.66
Closed DIC:  1.35   Equil. DIC:  1.02    Meas. Cond:  29.3   Cal. Cond:  30.8
Ca:   97.1          Mg:    46.9      Na:    94.4          K:  12.3        NH4:  0.4
SO4:   78.2       HCO3:    93.0      Cl:   83.3        NO3:    0.3           F:  1.2
Sum Cations:  251.3  Sum Anions:  256.1  Cations/Anions: 0.98   Tot. P:   3.7
Tot. Al:     9.8    Ext. Al:    3.5    Fe:    36.0      Mn:      9.0    SiO2:  0.58

ID: 1E1-083   Name: DYER LONG POND                       State: ME  Date: 23OCT84
Sample Type: REGULAR            Latitude: 44-11'00"N    Longitude: 69-31'30"W
Elevation:   39   Surface Temp: 13.3  Stratified: MIXED       Site Depth:   5.2
Lake Area:    169 Watershed Area:   5135 WA/LA:     30.4 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  2.5   Turbidity:   0.6      Color:   35
Closed pH: 6.85        Equil. pH: 7.20             ANC:  124.3          DOC:  5.11
Closed DIC:  1.41   Equil. DIC:  1.16    Meas. Cond:  36.2   Cal. Cond:  38.2
Ca:  100.8          Mg:    57.2      Na:   152.3          K:  15.5        NH4:  0.7
SO4:   64.9       HCO3:   112.2      Cl:  130.8        NO3:    0.4           F:  1.8
Sum Cations:  326.6  Sum Anions:  310.1  Cations/Anions: 1.05   Tot. P:   7.2
Tot. Al:    31.6    Ext. Al:    5.8    Fe:   103.0      Mn:      6.0    SiO2:  1.35

ID: 1E1-084   Name: CRESENT (RATTLESNAKE) L.             State: ME  Date: 29OCT84
Sample Type: REGULAR            Latitude: 43-58'30"N    Longitude: 70-27'30"W
Elevation:   85   Surface Temp: 12.5  Stratified: MIXED       Site Depth:  13.4
Lake Area:    283 Watershed Area:   3859 WA/LA:     13.6 Hydro Type: DRAINAGE
Residence Time:  0.84  Secchi Depth:  5.4   Turbidity:   0.4      Color:   15
Closed pH: 7.17        Equil. pH: 7.43             ANC:  193.9          DOC:  2.66
Closed DIC:  2.38   Equil. DIC:  2.26    Meas. Cond:  42.6   Cal. Cond:  44.5
Ca:  179.6          Mg:    54.5      Na:   138.5          K:  12.6        NH4:  0.8
SO4:   78.6       HCO3:   171.8      Cl:  115.9        NO3:    0.0           F:  3.1
Sum Cations:  386.0  Sum Anions:  369.6  Cations/Anions: 1.04   Tot. P:   5.7
Tot. Al:    16.9    Ext. Al:    1.4    Fe:     7.0      Mn:      0.0    SiO2:  2.40

ID: 1E1-086   Name: SEWELL POND                          State: ME  Date: 23OCT84
Sample Type: REGULAR            Latitude: 43-52'15"N    Longitude: 69-46'52"W
Elevation:    3   Surface Temp: 13.9  Stratified: MIXED       Site Depth:   2.7
Lake Area:     19 Watershed Area:     93 WA/LA:      5.0 Hydro Type: DRAINAGE
Residence Time:  0.44  Secchi Depth:  0.9   Turbidity:   1.6      Color:   53
Closed pH: 6.52        Equil. pH: 6.97             ANC:   80.7          DOC:  6.77
Closed DIC:  1.10   Equil. DIC:  0.67    Meas. Cond:  98.0   Cal. Cond: 101.5
Ca:   66.8          Mg:   141.1      Na:   575.7          K:  22.2        NH4:  0.9
SO4:  100.7       HCO3:    70.5      Cl:  630.4        NO3:    0.2           F:  2.0
Sum Cations:  807.1  Sum Anions:  803.9  Cations/Anions: 1.00   Tot. P:  26.9
Tot. Al:   112.9    Ext. Al:   12.6    Fe:   144.5      Mn:      5.5    SiO2:  0.09

ID: 1E1-087   Name: (NO NAME)                            State: ME  Date: 29OCT84
Sample Type: REGULAR            Latitude: 43-45'00"N    Longitude: 70-40'40"W
Elevation:   82   Surface Temp: 12.5  Stratified: MIXED       Site Depth:   1.2
Lake Area:     12 Watershed Area:   1243 WA/LA:    107.2 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.1   Turbidity:   1.6      Color:   25
Closed pH: 6.67        Equil. pH: 7.26             ANC:  141.1          DOC:  2.81
Closed DIC:  2.09   Equil. DIC:  1.60    Meas. Cond:  40.1   Cal. Cond:  41.4
Ca:   97.3          Mg:    48.4      Na:   177.7          K:  19.8        NH4:  1.6
SO4:   76.2       HCO3:   128.2      Cl:  137.3        NO3:    1.3           F:  2.9
Sum Cations:  344.8  Sum Anions:  345.9  Cations/Anions: 1.00   Tot. P:   6.7
Tot. Al:   102.2    Ext. Al:    8.9    Fe:    30.0      Mn:     13.0    SiO2:  4.42
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-088   Name: KENNEBUNK POND                      State: ME  Date: 30OCT84
Sample Type: REGULAR            Latitude: 43-30'15"N    Longitude: 70-39'00"W
Elevation:    83   Surface Temp: 13.4  Stratified: MIXED      Site Depth:  10.7
Lake Area:      80 Watershed Area:     249 WA/LA:     3.1 Hydro Type: DRAINAGE
Residence Time:  2.44  Secchi Depth:  5.6   Turbidity:   0.2      Color:    8
Closed pH: 6.86        Equil. pH: 7.18              ANC:   93.3         DOC:  2.40
Closed DIC:  1.34   Equil. DIC:  1.14    Meas. Cond:  29.3   Cal. Cond:  31.6
Ca:   97.2          Mg:    39.5        Na:  114.3          K:  10.0      NH4:  1.6
SO4:   70.7       HCO3:    82.6       Cl:  100.2        NO3:   0.2         F:  1.7
Sum Cations:  262.7  Sum Anions:  255.5  Cations/Anions: 1.03   Tot. P:   7.5
Tot. Al:    10.1    Ext. Al:   0.1     Fe:    17.5      Mn:     9.5    SiO2:  0.55

ID: 1E1-089   Name: JOSH POND                           State: ME  Date: 21OCT84
Sample Type: REGULAR            Latitude: 44-46'45"N    Longitude: 67-18'30"W
Elevation:    21   Surface Temp: 10.8  Stratified: MIXED      Site Depth:   2.4
Lake Area:      25 Watershed Area:     764 WA/LA:    30.4 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  0.5   Turbidity:   1.3      Color:  105
Closed pH: 5.73        Equil. pH: 5.90              ANC:   40.7         DOC: 14.95
Closed DIC:  0.58   Equil. DIC:  0.17    Meas. Cond:  31.6   Cal. Cond:  28.3
Ca:   69.1          Mg:    53.9        Na:  139.8          K:   5.9      NH4:  1.5
SO4:   55.0       HCO3:     9.8       Cl:  107.5        NO3:   0.0         F:  1.3
Sum Cations:  272.0  Sum Anions:  173.6  Cations/Anions: 1.57   Tot. P:  12.7
Tot. Al:  359.6     Ext. Al:  55.9     Fe:   335.0      Mn:    17.0    SiO2:  4.44

ID: 1E1-090   Name: ORANGE LAKE                         State: ME  Date: 21OCT84
Sample Type: REGULAR            Latitude: 44-46'10"N    Longitude: 67-15'00"W
Elevation:    23   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   6.7
Lake Area:      99 Watershed Area:    4845 WA/LA:    49.1 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  3.1   Turbidity:   0.7      Color:   35
Closed pH: 6.56        Equil. pH: 6.96              ANC:   72.1         DOC:  5.86
Closed DIC:  0.97   Equil. DIC:  0.70    Meas. Cond:  31.0   Cal. Cond:  31.0
Ca:   84.7          Mg:    51.3        Na:  126.5          K:   9.2      NH4:  0.9
SO4:   62.4       HCO3:    55.8       Cl:  111.7        NO3:   0.0         F:  1.2
Sum Cations:  273.0  Sum Anions:  231.1  Cations/Anions: 1.18   Tot. P:  17.2
Tot. Al:    67.0    Ext. Al:   3.7     Fe:   100.0      Mn:    13.0    SiO2:  0.72

ID: 1E1-091   Name: JIMMIES POND                        State: ME  Date: 21OCT84
Sample Type: REGULAR            Latitude: 44-58'04"N    Longitude: 68-09'38"W
Elevation:   119   Surface Temp: 10.9  Stratified: MIXED      Site Depth:   4.3
Lake Area:       8 Watershed Area:      80 WA/LA:     9.8 Hydro Type: DRAINAGE
Residence Time:  0.37  Secchi Depth:  2.7   Turbidity:   0.5      Color:   15
Closed pH: 6.99        Equil. pH: 7.54              ANC:  202.5         DOC:  3.17
Closed DIC:  2.77   Equil. DIC:  2.22    Meas. Cond:  35.6   Cal. Cond:  37.7
Ca:  160.7          Mg:    48.8        Na:  108.2          K:  19.4      NH4:  0.9
SO4:   55.5       HCO3:   188.4       Cl:   67.4        NO3:   0.0         F: 11.7
Sum Cations:  338.1  Sum Anions:  323.3  Cations/Anions: 1.05   Tot. P:   9.5
Tot. Al:    39.1    Ext. Al:   0.0     Fe:    93.0      Mn:    19.0    SiO2:  6.01

ID: 1E1-092   Name: GREAT POND                          State: ME  Date: 22OCT84
Sample Type: REGULAR            Latitude: 44-36'03"N    Longitude: 68-17'00"W
Elevation:    16   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   6.0
Lake Area:     102 Watershed Area:    2580 WA/LA:    25.4 Hydro Type: DRAINAGE
Residence Time:  0.17  Secchi Depth:  2.1   Turbidity:   0.7      Color:   65
Closed pH: 6.72        Equil. pH: 7.05              ANC:   94.2         DOC:  8.54
Closed DIC:  0.99   Equil. DIC:  0.71    Meas. Cond:  24.2   Cal. Cond:  25.6
Ca:   77.3          Mg:    50.0        Na:  111.8          K:   7.5      NH4:  0.5
SO4:   50.0       HCO3:    73.8       Cl:   59.2        NO3:   0.3         F:  4.2
Sum Cations:  247.3  Sum Anions:  187.5  Cations/Anions: 1.32   Tot. P:   9.1
Tot. Al:  189.8     Ext. Al:  22.2     Fe:   124.0      Mn:     7.0    SiO2:  3.38
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-093   Name: BELL POND                          State: ME  Date: 17OCT84
Sample Type: REGULAR             Latitude: 45-20'35"N    Longitude: 69-31'17"W
Elevation:  390   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   8.2
Lake Area:       8 Watershed Area:      57 WA/LA:      7.6 Hydro Type: DRAINAGE
Residence Time:  0.73  Secchi Depth:  8.2  Turbidity:   0.1      Color:     5
Closed pH: 5.36        Equil. pH: 5.35               ANC:    3.4        DOC:  0.90
Closed DIC:  0.33   Equil. DIC:  0.19    Meas. Cond:  13.5   Cal. Cond:  15.2
Ca:   42.9            Mg:   20.3        Na:    21.3        K:   2.8       NH4:   1.9
SO4:   87.8         HCO3:     2.3        Cl:    13.0       NO3:   1.5          F:   0.9
Sum Cations:    94.6  Sum Anions:  105.5  Cations/Anions: 0.90   Tot. P:    0.0
Tot. Al:   67.5    Ext. Al:  31.4    Fe:    30.0      Mn:   53.0    SiO2:  0.11

ID: 1E1-096   Name: MIDDLE CHAIN LAKE                  State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 45-13'11"N    Longitude: 68-04'45"W
Elevation:  100   Surface Temp: 11.2  Stratified: MIXED      Site Depth:   5.5
Lake Area:      88 Watershed Area:    3730 WA/LA:     42.5 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  3.0  Turbidity:   0.6      Color:    40
Closed pH: 6.64        Equil. pH: 6.97               ANC:   75.4        DOC:  7.31
Closed DIC:  0.82   Equil. DIC:  0.64    Meas. Cond:  22.2   Cal. Cond:  22.2
Ca:   96.9            Mg:   34.8        Na:    64.1        K:  17.8       NH4:   1.0
SO4:   65.6         HCO3:   51.5        Cl:    27.7       NO3:   0.0          F:   5.2
Sum Cations:  214.8  Sum Anions:  150.0  Cations/Anions: 1.43   Tot. P:    6.8
Tot. Al:  102.6    Ext. Al:  12.1    Fe:    27.0      Mn:    7.0    SiO2:  3.00

ID: 1E1-097   Name: UPPER OXHEAD POND                  State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 45-04'55"N    Longitude: 68-15'16"W
Elevation;  137   Surface Temp: 11.6  Stratified: MIXED      Site Depth:   2.4
Lake Area:      29 Watershed Area:      75 WA/LA:      2.6 Hydro Type: DRAINAGE
Residence Time:  0.66  Secchi Depth:  2.0  Turbidity:   1.5      Color:    10
Closed pH: 7.31        Equil. pH: 7.21               ANC:  108.1        DOC:  5.89
Closed DIC:  1.20   Equil. DIC:  1.27    Meas. Cond:  19.5   Cal. Cond:  20.6
Ca:   93.6            Mg:   27.9        Na:    54.7        K:   9.0       NH4:   1.5
SO4:   36.5         HCO3:  105.7        Cl:    29.3       NO3:   0.0          F:   2.8
Sum Cations:  186.8  Sum Anions:  174.3  Cations/Anions: 1.07   Tot. P:   12.6
Tot. Al:   15.7    Ext. Al:   0.0    Fe:     4.0      Mn:    9.0    SiO2:  0.58

ID: 1E1-100   Name: ROCKY LAKE                         State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 44-51'46"N    Longitude: 67-27'30"W
Elevation:   19   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   7.9
Lake Area:     662 Watershed Area:    6348 WA/LA:      9.6 Hydro Type: DRAINAGE
Residence Time:  0.53  Secchi Depth:  2.5  Turbidity:   0.5      Color:    45
Closed pH: 6.69        Equil. pH: 6.92               ANC:   75.3        DOC:  7.71
Closed DIC:  0.77   Equil. DIC:  0.61    Meas. Cond:  26.9   Cal. Cond:  26.4
Ca:   86.4            Mg:   43.2        Na:   103.4        K:  10.4       NH4:   1.4
SO4:   51.6         HCO3:   57.4        Cl:    79.4       NO3:   0.0          F:   1.3
Sum Cations:  245.0  Sum Anions:  189.8  Cations/Anions: 1.29   Tot. P:    8.5
Tot. Al:  113.0    Ext. Al:  14.6    Fe:    75.0      Mn:    6.0    SiO2:  1.88

ID: 1E1-101   Name: LONG POND                          State: ME  Date: 23OCT84
Sample Type: REGULAR             Latitude: 44-02'15"N    Longitude: 68-36'40"W
Elevation:    5   Surface Temp: 12.9  Stratified: MIXED      Site Depth:   6.1
Lake Area:      26 Watershed Area:     181 WA/LA:      6.9 Hydro Type: DRAINAGE
Residence Time:  0.55  Secchi Depth:  6.1  Turbidity:   0.4      Color:     5
Closed pH: 6.53        Equil. pH: 6.76               ANC:   45.9        DOC:  2.42
Closed DIC:  0.61   Equil. DIC:  0.45    Meas. Cond:  88.9   Cal. Cond:  93.4
Ca:   82.7            Mg:  126.7        Na:   497.6        K:  15.2       NH4:   0.4
SO4:  143.2         HCO3:   39.5        Cl:   552.2       NO3:   0.1          F:   3.7
Sum Cations:  723.0  Sum Anions:  738.7  Cations/Anions: 0.98   Tot. P:    2.1
Tot. Al:   14.9    Ext. Al:   3.1    Fe:     0.0      Mn:    5.0    SiO2:  1.77
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-102   Name: PEAKED MOUNTAIN POND                 State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-00'43"N    Longitude: 68-38'10"W
Elevation:  233   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   7.3
Lake Area:       23 Watershed Area:     365 WA/LA:     15.9 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  3.4   Turbidity:   0.8       Color:   40
Closed pH: 7.03       Equil. pH: 7.27              ANC:  123.4        DOC:  6.26
Closed DIC:  1.26   Equil. DIC:  1.27   Meas. Cond:  24.0   Cal. Cond:  22.6
Ca:  126.8         Mg:   50.7       Na:   34.9         K:   7.1       NH4:  1.1
SO4:   58.9      HCO3:  103.7       Cl:    7.5       NO3:   0.0         F:  0.9
Sum Cations:  220.8  Sum Anions:  171.1  Cations/Anions: 1.29   Tot. P:   4.9
Tot. Al:   51.1   Ext. Al:  15.9    Fe:   49.0     Mn:     0.0    SiO2:  0.99

ID: 1E1-103   Name: CROOKED POND                         State: ME  Date: 21OCT84
Sample Type: REGULAR            Latitude: 45-21'10"N    Longitude: 68-26'35"W
Elevation:   67   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   7.6
Lake Area:       92 Watershed Area:     528 WA/LA:      5.8 Hydro Type: DRAINAGE
Residence Time:  1.24  Secchi Depth:  3.3   Turbidity:   0.4       Color:   25
Closed pH: 6.72       Equil. pH: 7.03              ANC:   78.2        DOC:  5.02
Closed DIC:  1.08   Equil. DIC:  0.82   Meas. Cond:  21.0   Cal. Cond:  21.4
Ca:   93.9         Mg:   33.9       Na:   54.0         K:  11.0       NH4:  0.9
SO4:   67.4      HCO3:   70.6       Cl:   23.1       NO3:   0.0         F:  2.1
Sum Cations:  193.8  Sum Anions:  163.2  Cations/Anions: 1.19   Tot. P:   8.9
Tot. Al:   29.8   Ext. Al:   0.2    Fe:   22.0     Mn:    10.0    SiO2:  1.13

ID: 1E1-105   Name: CLIFFORD POND                        State: ME  Date: 17OCT84
Sample Type: REGULAR            Latitude: 45-50'06"N    Longitude: 69-05'37"W
Elevation:  369   Surface Temp: 10.3  Stratified: MIXED      Site Depth:   4.5
Lake Area:        9 Watershed Area:     122 WA/LA:     14.2 Hydro Type: DRAINAGE
Residence Time:  0.22  Secchi Depth:  4.5   Turbidity:   0.3       Color:   20
Closed pH: 6.54       Equil. pH: 7.00              ANC:   69.8        DOC:  3.91
Closed DIC:  1.12   Equil. DIC:  0.77   Meas. Cond:  20.4   Cal. Cond:  20.5
Ca:  103.7         Mg:   29.0       Na:   34.9         K:   8.3       NH4:  1.2
SO4:   76.6      HCO3:   71.1       Cl:    9.5       NO3:   0.2         F:  5.1
Sum Cations:  177.2  Sum Anions:  162.5  Cations/Anions: 1.09   Tot. P:   1.4
Tot. Al:   92.9   Ext. Al:  14.8    Fe:   50.0     Mn:    20.0    SiO2:  2.44

ID: 1E1-106   Name: GREENWOOD POND                       State: ME  Date: 17OCT84
Sample Type: REGULAR            Latitude: 45-32'07"N    Longitude: 69-13'58"W
Elevation:  676   Surface Temp:  9.4  Stratified: MIXED      Site Depth:   7.3
Lake Area:        9 Watershed Area:     339 WA/LA:     39.9 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  5.5   Turbidity:   0.5       Color:   15
Closed pH: 6.38       Equil. pH: 6.60              ANC:   28.8        DOC:  1.53
Closed DIC:  0.57   Equil. DIC:  0.42   Meas. Cond:  11.0   Cal. Cond:  10.8
Ca:   26.8         Mg:   24.2       Na:   31.6         K:   3.6       NH4:  1.1
SO4:   33.8      HCO3:   29.0       Cl:   13.0       NO3:  11.1         F:  0.5
Sum Cations:   87.8  Sum Anions:   87.4  Cations/Anions: 1.00   Tot. P:   0.4
Tot. Al:   92.9   Ext. Al:  13.3    Fe:   38.0     Mn:     7.0    SiO2:  2.30

ID: 1E1-108   Name: DOUGHNUT POND                        State: ME  Date: 17OCT84
Sample Type: REGULAR            Latitude: 45-48'34"N    Longitude: 69-07'24"W
Elevation:  381   Surface Temp: 10.5  Stratified: MIXED      Site Depth:   6.7
Lake Area:        5 Watershed Area:      64 WA/LA:     12.5 Hydro Type: DRAINAGE
Residence Time:  0.37  Secchi Depth:  5.0   Turbidity:   0.3       Color:   15
Closed pH: 6.72       Equil. pH: 7.26              ANC:  137.3        DOC:  3.08
Closed DIC:  1.94   Equil. DIC:  1.46   Meas. Cond:  22.2   Cal. Cond:  22.5
Ca:  128.2         Mg:   31.8       Na:   38.0         K:   8.7       NH4:  0.6
SO4:   50.2      HCO3:  122.9       Cl:    8.0       NO3:   0.0         F:  8.7
Sum Cations:  207.5  Sum Anions:  189.9  Cations/Anions: 1.09   Tot. P:   2.3
Tot. Al:   20.4   Ext. Al:  12.7    Fe:   57.0     Mn:    10.0    SiO2:  2.19
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-109   Name: SHIRLEY POND                      State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-22'06"N   Longitude: 69-37'17"W
Elevation:  315   Surface Temp:  9.3  Stratified: MIXED     Site Depth:    2.7
Lake Area:      25 Watershed Area:    4887 WA/LA:    192.4 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  2.0  Turbidity:   0.8      Color:    35
Closed pH: 7.27       Equil. pH: 7.65             ANC:  270.5         DOC:  6.87
Closed DIC:  3.07   Equil. DIC:  2.89    Meas. Cond:  42.4   Cal. Cond:  42.3
Ca:  214.3          Mg:  111.1        Na:   77.3         K:    9.3      NH4:  1.2
SO4:   66.9       HCO3:  247.3        Cl:   32.7       NO3:    0.3        F:  1.1
Sum Cations:  413.2  Sum Anions:  348.8  Cations/Anions: 1.18   Tot. P:  10.9
Tot. Al:  242.0    Ext. Al:    0.2     Fe:    17.0     Mn:     0.0    SiO2:  2.07
```

```
ID: 1E1-111   Name: LONG POND                         State: ME  Date: 23OCT84
Sample Type: REGULAR             Latitude: 44-32'02"N   Longitude: 68-10'13"W
Elevation:   74   Surface Temp: 12.9  Stratified: WEAK      Site Depth:   16.6
Lake Area:      24 Watershed Area:      80 WA/LA:      3.4 Hydro Type: DRAINAGE
Residence Time:  2.74  Secchi Depth:  6.3  Turbidity:   0.5      Color:    10
Closed pH: 5.83       Equil. pH: 5.99             ANC:   11.0         DOC:  2.27
Closed DIC:  0.34   Equil. DIC:  0.11    Meas. Cond:  21.2   Cal. Cond:  23.4
Ca:   33.3          Mg:   27.7        Na:  104.1         K:    6.5      NH4:  0.6
SO4:   63.8       HCO3:    7.1        Cl:  104.3       NO3:    0.8        F:  1.8
Sum Cations:  174.2  Sum Anions:  177.8  Cations/Anions: 0.98   Tot. P:   1.5
Tot. Al:   53.3    Ext. Al:   11.8     Fe:     5.0     Mn:    38.0    SiO2:  0.29
```

```
ID: 1E1-113   Name: UP. COLD STREAM PONDS (E)         State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 45-18'13"N   Longitude: 68-27'02"W
Elevation:  107   Surface Temp: 12.2  Stratified: MIXED     Site Depth:    7.3
Lake Area:      79 Watershed Area:     531 WA/LA:      6.8 Hydro Type: DRAINAGE
Residence Time:  1.07  Secchi Depth:  5.2  Turbidity:   0.4      Color:    10
Closed pH: 6.86       Equil. pH: 7.07             ANC:   87.4         DOC:  3.40
Closed DIC:  1.20   Equil. DIC:  1.07    Meas. Cond:  26.0   Cal. Cond:  26.7
Ca:  111.2          Mg:   35.7        Na:   75.2         K:    9.7      NH4:  0.9
SO4:   81.2       HCO3:   83.7        Cl:   42.5       NO3:    0.0        F:  2.4
Sum Cations:  232.9  Sum Anions:  209.8  Cations/Anions: 1.11   Tot. P:   5.4
Tot. Al:   37.1    Ext. Al:    0.0     Fe:     9.0     Mn:    10.0    SiO2:  2.59
```

```
ID: 1E1-116   Name: HEDGEHOG POND                     State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-28'45"N   Longitude: 69-24'45"W
Elevation:  418   Surface Temp:  9.1  Stratified: MIXED     Site Depth:    1.2
Lake Area:      15 Watershed Area:     262 WA/LA:     17.8 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.2  Turbidity:   1.7      Color:    50
Closed pH: 6.99       Equil. pH: 7.31             ANC:  168.8         DOC:  8.62
Closed DIC:  1.79   Equil. DIC:  1.67    Meas. Cond:  31.8   Cal. Cond:  30.9
Ca:  164.7          Mg:   82.1        Na:   52.5         K:    7.6      NH4:  1.7
SO4:   75.8       HCO3:  135.1        Cl:   15.9       NO3:    0.4        F:  1.0
Sum Cations:  308.6  Sum Anions:  228.4  Cations/Anions: 1.35   Tot. P:  10.1
Tot. Al:  126.0    Ext. Al:    8.0     Fe:    31.0     Mn:     0.0    SiO2:  5.20
```

```
ID: 1E1-117   Name: LILY POND                         State: ME  Date: 29OCT84
Sample Type: REGULAR             Latitude: 43-58'57"N   Longitude: 70-19'02"W
Elevation:   88   Surface Temp: 11.2  Stratified: MIXED     Site Depth:    6.7
Lake Area:      10 Watershed Area:     246 WA/LA:     25.4 Hydro Type: DRAINAGE
Residence Time:  0.23  Secchi Depth:  1.6  Turbidity:   0.8      Color:    45
Closed pH: 6.41       Equil. pH: 7.33             ANC:  133.0         DOC:  5.66
Closed DIC:  2.55   Equil. DIC:  1.29    Meas. Cond:  80.7   Cal. Cond:  84.6
Ca:  140.2          Mg:   50.3        Na:  490.2         K:   12.1      NH4:  1.4
SO4:   61.3       HCO3:  115.3        Cl:  495.0       NO3:    0.3        F:  1.1
Sum Cations:  694.6  Sum Anions:  673.0  Cations/Anions: 1.03   Tot. P:   8.3
Tot. Al:  104.1    Ext. Al:   10.5     Fe:   222.0     Mn:    28.0    SiO2:  3.80
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-118   Name: HOBART BOG                        State: ME  Date: 21OCT84
Sample Type: REGULAR             Latitude: 44-51'02"N    Longitude: 67-15'22"W
Elevation:    36   Surface Temp: 10.9  Stratified: MIXED      Site Depth:   2.1
Lake Area:         5 Watershed Area:     135 WA/LA:     25.0 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  0.8   Turbidity:   0.6      Color:    65
Closed pH: 6.85        Equil. pH: 7.28                ANC:   140.8        DOC: 10.45
Closed DIC:   1.43   Equil. DIC:   1.22    Meas. Cond:  35.0   Cal. Cond:  36.2
Ca:   162.0          Mg:    56.3        Na:  123.9          K:    5.9       NH4:   1.3
SO4:    62.1       HCO3:   103.9        Cl:   93.9        NO3:    0.2         F:   0.9
Sum Cations:   349.6  Sum Anions:   261.1  Cations/Anions: 1.34   Tot. P:  11.5
Tot. Al:    81.0    Ext. Al:     7.7     Fe:   105.0      Mn:    13.0    SiO2:  1.35

ID: 1E1-119   Name: (NO NAME)                         State: ME  Date: 29OCT84
Sample Type: REGULAR             Latitude: 43-48'54"N    Longitude: 70-40'10"W
Elevation:    88   Surface Temp: 11.6  Stratified: MIXED      Site Depth:   1.2
Lake Area:         8 Watershed Area:    2634 WA/LA:    351.2 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  1.2   Turbidity:   0.7      Color:    40
Closed pH: 6.49        Equil. pH: 7.41                ANC:   178.6        DOC:  3.80
Closed DIC:   3.30   Equil. DIC:   2.01    Meas. Cond:  42.3   Cal. Cond:  43.2
Ca:   107.6          Mg:    53.2        Na:  185.5          K:   18.1       NH4:   1.1
SO4:    59.3       HCO3:   158.4        Cl:  146.7        NO3:    0.6         F:   3.0
Sum Cations:   365.7  Sum Anions:   368.0  Cations/Anions: 0.99   Tot. P:   8.8
Tot. Al:   121.7    Ext. Al:    15.4     Fe:    54.0      Mn:     9.0    SiO2:  8.72

ID: 1E1-12[illegible]   Name: (NO NAME)                         State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-27'26"N    Longitude: 68-50'46"W
Elevation:   131   Surface Temp:  9.0  Stratified: MIXED      Site Depth:   2.1
Lake Area:         5 Watershed Area:   13489 WA/LA:   2932.4 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  2.1   Turbidity:   0.3      Color:    25
Closed pH: 6.32        Equil. pH: 6.94                ANC:    60.1        DOC:  4.72
Closed DIC:   1.21   Equil. DIC:   0.64    Meas. Cond:  20.4   Cal. Cond:  20.3
Ca:    83.5          Mg:    34.0        Na:   57.5          K:    7.5       NH4:   1.5
SO4:    62.4       HCO3:    45.2        Cl:   36.2        NO3:    0.4         F:   1.7
Sum Cations:   184.3  Sum Anions:   145.9  Cations/Anions: 1.26   Tot. P:   8.5
Tot. Al:    69.1    Ext. Al:     7.2     Fe:     0.0      Mn:     0.0    SiO2:  1.69

ID: 1E1-122   Name: LITTLE POND                       State: ME  Date: 23OCT84
Sample Type: REGULAR             Latitude: 44-23'34"N    Longitude: 69-19'14"W
Elevation:   155   Surface Temp: 12.8  Stratified: MIXED      Site Depth:   4.1
Lake Area:        24 Watershed Area:    1650 WA/LA:     67.9 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  4.1   Turbidity:   0.5      Color:     5
Closed pH: 6.80        Equil. pH: 7.12                ANC:    93.0        DOC:  0.22
Closed DIC:   1.21   Equil. DIC:   0.98    Meas. Cond:  30.1   Cal. Cond:  32.4
Ca:    97.1          Mg:    46.1        Na:  110.5          K:   12.8       NH4:   0.2
SO4:    81.5       HCO3:    96.7        Cl:   88.8        NO3:    0.3         F:   1.0
Sum Cations:   266.7  Sum Anions:   268.4  Cations/Anions: 0.99   Tot. P:   2.9
Tot. Al:    13.6    Ext. Al:     2.8     Fe:     2.0      Mn:     9.0    SiO2:  0.59

ID: 1E1-123   Name: FIRST POND                        State: ME  Date: 22OCT84
Sample Type: REGULAR             Latitude: 44-22'10"N    Longitude: 68-36'00"W
Elevation:    12   Surface Temp: 12.7  Stratified: MIXED      Site Depth:   7.6
Lake Area:       118 Watershed Area:    2650 WA/LA:     22.5 Hydro Type: DRAINAGE
Residence Time:  0.24  Secchi Depth:  2.1   Turbidity:   1.0      Color:    65
Closed pH: 6.64        Equil. pH: 7.04                ANC:    80.6        DOC:  5.20
Closed DIC:   1.00   Equil. DIC:   0.75    Meas. Cond:  56.9   Cal. Cond:  60.7
Ca:   184.5          Mg:    99.4        Na:  176.8          K:   17.4       NH4:   0.3
SO4:   264.3       HCO3:    73.1        Cl:  126.8        NO3:    0.1         F:   3.5
Sum Cations:   478.5  Sum Anions:   467.8  Cations/Anions: 1.02   Tot. P:   3.1
Tot. Al:   104.7    Ext. Al:    13.0     Fe:   216.0      Mn:    25.0    SiO2:  1.67
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E1-124   Name: LOWER HADLOCK POND                    State: ME  Date: 22OCT84
Sample Type: REGULAR              Latitude: 44-18'36"N    Longitude: 68-17'26"W
Elevation:   57   Surface Temp: 13.1  Stratified: MIXED      Site Depth:  11.5
Lake Area:     14 Watershed Area:     456 WA/LA:    32.8 Hydro Type: DRAINAGE
Residence Time:  0.25  Secchi Depth:  5.3  Turbidity:   0.4     Color:    10
Closed pH: 6.52       Equil. pH: 6.78               ANC:   38.7         DOC:  2.50
Closed DIC:  0.61   Equil. DIC:  0.44    Meas. Cond:  46.6  Cal. Cond:  44.2
Ca:   87.8          Mg:    44.7        Na:  242.6         K:    7.5       NH4:  0.3
SO4:    94.4      HCO3:    37.6       Cl:   187.3       NO3:    0.2          F:  3.5
Sum Cations:  383.2  Sum Anions:  323.0  Cations/Anions: 1.19   Tot. P:   2.7
Tot. Al:    17.8    Ext. Al:    2.2    Fe:      1.0     Mn:     0.0    SiO2:  1.83

ID: 1E1-126   Name: FITTS POND                            State: ME  Date: 21OCT84
Sample Type: REGULAR              Latitude: 44-45'47"N    Longitude: 68-33'21"W
Elevation:   98   Surface Temp: 12.5  Stratified: MIXED      Site Depth:  11.1
Lake Area:     40 Watershed Area:     324 WA/LA:     8.2 Hydro Type: DRAINAGE
Residence Time:  1.15  Secchi Depth:  7.2  Turbidity:   0.2     Color:     5
Closed pH: 6.52       Equil. pH: 6.75               ANC:   36.8         DOC:  1.77
Closed DIC:  0.62   Equil. DIC:  0.46    Meas. Cond:  22.2  Cal. Cond:  24.2
Ca:   79.6          Mg:    27.9        Na:   69.0         K:    8.6       NH4:  0.7
SO4:    92.6      HCO3:    36.9       Cl:    46.4       NO3:    0.5          F: 21.2
Sum Cations:  186.0  Sum Anions:  197.7  Cations/Anions: 0.94   Tot. P:   7.4
Tot. Al:    49.7    Ext. Al:   12.4    Fe:      3.0     Mn:     7.0    SiO2:  3.08

ID: 1E1-128   Name: HALFMILE POND                         State: ME  Date: 21OCT84
Sample Type: REGULAR              Latitude: 44-50'59"N    Longitude: 68-25'47"W
Elevation:  119   Surface Temp: 11.0  Stratified: MIXED      Site Depth:   5.5
Lake Area:     12 Watershed Area:     176 WA/LA:    15.2 Hydro Type: DRAINAGE
Residence Time:  0.32  Secchi Depth:  2.3  Turbidity:   0.6     Color:    30
Closed pH: 6.69       Equil. pH: 6.98               ANC:   70.7         DOC:  5.93
Closed DIC:  1.04   Equil. DIC:  0.70    Meas. Cond:  23.4  Cal. Cond:  24.2
Ca:   85.1          Mg:    40.6        Na:   87.8         K:    6.6       NH4:  1.2
SO4:    70.7      HCO3:    55.2       Cl:    38.9       NO3:    0.3          F: 15.8
Sum Cations:  221.4  Sum Anions:  181.1  Cations/Anions: 1.22   Tot. P:   3.3
Tot. Al:   111.1    Ext. Al:   14.8    Fe:     20.0     Mn:     3.0    SiO2:  3.43

ID: 1E1-129   Name: SMITH POND                            State: ME  Date: 19OCT84
Sample Type: REGULAR              Latitude: 45-03'44"N    Longitude: 69-42'43"W
Elevation:  282   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   6.8
Lake Area:     65 Watershed Area:    1652 WA/LA:    25.5 Hydro Type: DRAINAGE
Residence Time:  0.23  Secchi Depth:  3.3  Turbidity:   0.3     Color:    25
Closed pH: 7.18       Equil. pH: 7.48               ANC:  179.9         DOC:  5.09
Closed DIC:  2.07   Equil. DIC:  1.94    Meas. Cond:  29.4  Cal. Cond:  29.5
Ca:  147.0          Mg:    91.0        Na:   41.5         K:    7.3       NH4:  0.8
SO4:    63.4      HCO3:   158.3       Cl:    14.3       NO3:    0.0          F:  0.9
Sum Cations:  287.6  Sum Anions:  237.3  Cations/Anions: 1.21   Tot. P:   8.0
Tot. Al:    45.6    Ext. Al:    0.2    Fe:     40.0     Mn:     1.0    SiO2:  2.78

ID: 1E2-002   Name: (NO NAME)                             State: ME  Date: 17OCT84
Sample Type: REGULAR              Latitude: 45-59'40"N    Longitude: 69-47'00"W
Elevation:  387   Surface Temp: 10.2  Stratified: MIXED      Site Depth:   4.3
Lake Area:      6 Watershed Area:     220 WA/LA:    36.7 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  3.6  Turbidity:   0.3     Color:    40
Closed pH: 7.25       Equil. pH: 7.55               ANC:  265.4         DOC:  8.49
Closed DIC:  2.99   Equil. DIC:  2.71    Meas. Cond:  39.1  Cal. Cond:  40.1
Ca:  277.2          Mg:    86.9        Na:   29.4         K:    8.5       NH4:  1.4
SO4:    76.3      HCO3:   226.7       Cl:     7.0       NO3:    0.1          F:  1.1
Sum Cations:  403.5  Sum Anions:  311.5  Cations/Anions: 1.30   Tot. P:   0.8
Tot. Al:    59.2    Ext. Al:   13.8    Fe:     39.0     Mn:     0.0    SiO2:  1.80
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E2-003   Name: (NO NAME)                           State: ME  Date: 17OCT84
Sample Type: REGULAR             Latitude: 45-57'15"N   Longitude: 70-04'05"W
Elevation:  501   Surface Temp:  9.3  Stratified: MIXED     Site Depth:   0.9
Lake Area:        5 Watershed Area:     67 WA/LA:     14.6 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  0.9  Turbidity:  0.5      Color:    40
Closed pH: 7.35        Equil. pH: 7.77             ANC:  393.2        DOC:  6.04
Closed DIC:  4.42   Equil. DIC:  4.29   Meas. Cond:  50.3  Cal. Cond:  51.7
Ca:  354.8          Mg:  113.5      Na:    29.0       K:   3.8      NH4:   1.7
SO4:   80.4      HCO3:  350.9      Cl:     6.9     NO3:   0.5         F:   0.9
Sum Cations:  502.8  Sum Anions:  440.4  Cations/Anions: 1.14   Tot. P:   1.0
Tot. Al:   64.3   Ext. Al:  12.9    Fe:    59.0     Mn:     7.0    SiO2:  1.59

ID: 1E2-004   Name: LOST POND                           State: ME  Date: 16OCT84
Sample Type: REGULAR             Latitude: 46-13'00"N   Longitude: 69-20'50"W
Elevation:  296   Surface Temp: 12.8  Stratified: MIXED     Site Depth:   0.6
Lake Area:       20 Watershed Area:    438 WA/LA:     22.2 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  0.6  Turbidity:  1.2      Color:   175
Closed pH: 6.05        Equil. pH: 6.30             ANC:   87.8        DOC: 26.38
Closed DIC:  0.62   Equil. DIC:  0.28   Meas. Cond:  25.2  Cal. Cond:  22.3
Ca:  146.5          Mg:   84.7      Na:    43.2       K:  13.8      NH4:   2.1
SO4:   38.3      HCO3:   22.9      Cl:    16.3     NO3:   0.2         F:   1.2
Sum Cations:  291.1  Sum Anions:   79.1  Cations/Anions: 3.68   Tot. P:  11.1
Tot. Al:  796.8   Ext. Al: 204.5    Fe:   492.0     Mn:    18.0    SiO2:  1.47

ID: 1E2-007   Name: FAIRBANKS POND                      State: ME  Date: 24OCT84
Sample Type: REGULAR             Latitude: 44-23'21"N   Longitude: 69-49'52"W
Elevation:   81   Surface Temp: 12.2  Stratified: WEAK      Site Depth:  10.0
Lake Area:        6 Watershed Area:     28 WA/LA:      4.4 Hydro Type: SEEPAGE
Residence Time:     *  Secchi Depth:  2.3  Turbidity:  0.9      Color:    30
Closed pH: 6.58        Equil. pH: 7.07             ANC:   82.8        DOC:  4.51
Closed DIC:  1.16   Equil. DIC:  0.80   Meas. Cond:  24.2  Cal. Cond:  23.9
Ca:   83.5          Mg:   35.2      Na:    64.8       K:  18.7      NH4:   0.7
SO4:   42.5      HCO3:   69.9      Cl:    75.9     NO3:   0.1         F:   0.6
Sum Cations:  203.1  Sum Anions:  189.1  Cations/Anions: 1.07   Tot. P:   4.8
Tot. Al:   18.0   Ext. Al:   4.2    Fe:    39.0     Mn:     1.0    SiO2:  0.33

ID: 1E2-010   Name: FOREST POND                         State: ME  Date: 23OCT84
Sample Type: REGULAR             Latitude: 43-59'50"N   Longitude: 69-21'15"W
Elevation:   20   Surface Temp: 11.3  Stratified: MIXED     Site Depth:   2.4
Lake Area:        4 Watershed Area:     23 WA/LA:      5.5 Hydro Type: DRAINAGE
Residence Time:  0.34  Secchi Depth:  1.1  Turbidity:  0.5      Color:   200
Closed pH: 5.95        Equil. pH: 6.67             ANC:   64.9        DOC: 11.05
Closed DIC:  1.52   Equil. DIC:  0.36   Meas. Cond:  34.4  Cal. Cond:  34.4
Ca:   65.4          Mg:   46.7      Na:   171.8       K:  14.1      NH4:   6.5
SO4:   57.9      HCO3:   34.4      Cl:   148.0     NO3:   1.3         F:   1.6
Sum Cations:  305.4  Sum Anions:  243.1  Cations/Anions: 1.26   Tot. P:  12.6
Tot. Al:  474.5   Ext. Al:  53.7    Fe:  1058.0     Mn:    22.0    SiO2:  3.51

ID: 1E2-011   Name: ELM POND                            State: ME  Date: 17OCT84
Sample Type: REGULAR             Latitude: 46-01'30"N   Longitude: 69-48'30"W
Elevation:  382   Surface Temp: 11.3  Stratified: MIXED     Site Depth:   1.8
Lake Area:      100 Watershed Area:   2321 WA/LA:     23.1 Hydro Type: CLOSED
Residence Time:     *  Secchi Depth:  2.0  Turbidity:  0.5      Color:    20
Closed pH: 7.45        Equil. pH: 7.77             ANC:  341.1        DOC:  6.42
Closed DIC:  3.80   Equil. DIC:  3.86   Meas. Cond:  48.2  Cal. Cond:  48.7
Ca:  320.7          Mg:   96.8      Na:    44.3       K:   6.6      NH4:   2.3
SO4:   87.5      HCO3:  308.4      Cl:     8.9     NO3:   1.0         F:   1.4
Sum Cations:  470.7  Sum Anions:  408.2  Cations/Anions: 1.15   Tot. P:   1.4
Tot. Al:   61.8   Ext. Al:  16.0    Fe:    69.0     Mn:     3.0    SiO2:  1.82
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E2-012   Name: SECOND MUSQUACOOK LAKE            State: ME  Date: 16OCT84
Sample Type: REGULAR              Latitude: 46-38'00"N   Longitude: 69-10'30"W
Elevation:  326   Surface Temp: 10.3  Stratified: MIXED     Site Depth:  13.7
Lake Area:     328 Watershed Area:  17078 WA/LA:    52.0 Hydro Type: DRAINAGE
Residence Time:  0.24  Secchi Depth:  3.3   Turbidity:   0.7      Color:   40
Closed pH: 7.10        Equil. pH: 7.41               ANC:  199.0       DOC:  6.49
Closed DIC:  2.10   Equil. DIC:  1.91    Meas. Cond:  31.9   Cal. Cond:  33.4
Ca:  191.2            Mg:   89.6      Na:    40.3         K:  10.6      NH4:  1.5
SO4:   82.3       HCO3:  152.0       Cl:    8.9        NO3:   3.3          F:  1.3
Sum Cations:  333.3  Sum Anions:  247.9  Cations/Anions: 1.34   Tot. P:  57.9
Tot. Al:   64.5    Ext. Al:  10.7    Fe:    92.0      Mn:   37.0     SiO2:  2.69
```

```
ID: 1E2-014   Name: CLARKSON POND                     State: ME  Date: 16OCT84
Sample Type: REGULAR              Latitude: 46-25'20"N   Longitude: 69-28'00"W
Elevation:  374   Surface Temp: 11.8  Stratified: MIXED     Site Depth:   1.0
Lake Area:      14 Watershed Area:     388 WA/LA:    27.7 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.0   Turbidity:   0.7      Color:   95
Closed pH: 7.27        Equil. pH: 7.78               ANC:  399.9       DOC: 16.15
Closed DIC:  4.28   Equil. DIC:  3.85    Meas. Cond:  50.4   Cal. Cond:  53.7
Ca:  310.6            Mg:  221.3      Na:    40.1         K:   8.7      NH4:  2.0
SO4:   60.0       HCO3:  328.3       Cl:   13.3        NO3:   1.8          F:  1.4
Sum Cations:  582.7  Sum Anions:  405.8  Cations/Anions: 1.44   Tot. P:  13.6
Tot. Al:  164.0    Ext. Al:  28.5    Fe:   158.0      Mn:   10.0     SiO2:  2.19
```

```
ID: 1E2-015   Name: (NO NAME)                         State: ME  Date: 16OCT84
Sample Type: REGULAR              Latitude: 46-16'45"N   Longitude: 69-36'25"W
Elevation:  308   Surface Temp: 13.1  Stratified: MIXED     Site Depth:   1.0
Lake Area:      14 Watershed Area:     873 WA/LA:    63.7 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.0   Turbidity:   0.5      Color:   45
Closed pH: 7.34        Equil. pH: 7.77               ANC:  380.6       DOC:  8.47
Closed DIC:  2.45   Equil. DIC:  3.97    Meas. Cond:  51.4   Cal. Cond:  52.5
Ca:  368.8            Mg:   75.3      Na:    38.1         K:  10.1      NH4:  8.2
SO4:   89.1       HCO3:  335.1       Cl:   14.2        NO3:   0.2          F:  1.2
Sum Cations:  500.6  Sum Anions:  440.8  Cations/Anions: 1.14   Tot. P:   1.1
Tot. Al:   72.4    Ext. Al:  22.4    Fe:    88.0      Mn:    3.0     SiO2:  3.70
```

```
ID: 1E2-016   Name: ROUND POND                        State: ME  Date: 16OCT84
Sample Type: REGULAR              Latitude: 46-14'30"N   Longitude: 69-33'45"W
Elevation:  304   Surface Temp: 11.7  Stratified: MIXED     Site Depth:   2.7
Lake Area:     150 Watershed Area:  11295 WA/LA:    75.4 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.8   Turbidity:   1.1      Color:   35
Closed pH: 7.35        Equil. pH: 7.67               ANC:  270.1       DOC:  7.07
Closed DIC:  2.96   Equil. DIC:  2.79    Meas. Cond:  39.5   Cal. Cond:  40.0
Ca:  265.7            Mg:   82.4      Na:    35.8         K:   9.1      NH4:  1.4
SO4:   77.5       HCO3:  234.2       Cl:    6.3        NO3:   0.0          F:  1.2
Sum Cations:  394.5  Sum Anions:  319.6  Cations/Anions: 1.23   Tot. P:   3.6
Tot. Al:   38.9    Ext. Al:  13.1    Fe:    98.0      Mn:   10.0     SiO2:  1.58
```

```
ID: 1E2-017   Name: BIG HURD POND                     State: ME  Date: 17OCT84
Sample Type: REGULAR              Latitude: 46-10'00"N   Longitude: 69-40'00"W
Elevation:  313   Surface Temp: 10.2  Stratified: MIXED     Site Depth:   3.9
Lake Area:     117 Watershed Area:   2616 WA/LA:    22.3 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  3.4   Turbidity:   0.7      Color:   45
Closed pH: 7.21        Equil. pH: 7.51               ANC:  219.9       DOC:  8.38
Closed DIC:  2.30   Equil. DIC:  2.26    Meas. Cond:  35.5   Cal. Cond:  37.0
Ca:  252.5            Mg:   74.6      Na:    30.6         K:   7.7      NH4:  1.3
SO4:   84.1       HCO3:  189.5       Cl:    7.6        NO3:   0.2          F:  1.6
Sum Cations:  366.8  Sum Anions:  283.3  Cations/Anions: 1.29   Tot. P:   1.2
Tot. Al:  155.8    Ext. Al:  10.8    Fe:    77.0      Mn:   11.0     SiO2:  2.71
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E2-018   Name: WEBSTER LAKE                      State: ME  Date: 16OCT84
Sample Type: REGULAR           Latitude: 46-09'30"N    Longitude: 69-05'00"W
Elevation:  272   Surface Temp: 10.5  Stratified: MIXED      Site Depth:  13.4
Lake Area:     208 Watershed Area:  72452 WA/LA:    347.7 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  2.6   Turbidity:   0.7      Color:   35
Closed pH: 7.10        Equil. pH: 7.28               ANC:  167.9        DOC:  6.04
Closed DIC:  1.99   Equil. DIC:  1.72    Meas. Cond:  32.4   Cal. Cond:  31.8
Ca:  187.3          Mg:   81.5       Na:   32.6       K:  10.4       NH4:  1.5
SO4:   84.5       HCO3:  132.4       Cl:    10.9      NO3:   2.9          F:  1.1
Sum Cations:  313.4  Sum Anions:  232.0  Cations/Anions: 1.35   Tot. P:   0.0
Tot. Al:   58.1    Ext. Al:   8.7     Fe:   31.0      Mn:   11.0     SiO2:  1.97

ID: 1E2-019   Name: GREEN POND                        State: ME  Date: 15OCT84
Sample Type: REGULAR           Latitude: 46-09'00"N    Longitude: 68-24'15"W
Elevation:  283   Surface Temp: 11.2  Stratified: MIXED      Site Depth:   1.9
Lake Area:       7 Watershed Area:      65 WA/LA:      9.8 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  1.9   Turbidity:   0.9      Color:   25
Closed pH: 7.28        Equil. pH: 7.41               ANC:  162.6        DOC:  4.14
Closed DIC:  1.67   Equil. DIC:  1.81    Meas. Cond:  29.0   Cal. Cond:  29.8
Ca:  172.8          Mg:   46.2       Na:   42.5       K:   5.8       NH4:  1.4
SO4:   81.2       HCO3:  155.1       Cl:    12.1      NO3:   0.1          F:  1.1
Sum Cations:  268.9  Sum Anions:  249.8  Cations/Anions: 1.08   Tot. P:   0.7
Tot. Al:   36.5    Ext. Al:  10.4     Fe:   44.0      Mn:    4.0     SiO2:  3.59

ID: 1E2-021   Name: (NO NAME)                         State: ME  Date: 16OCT84
Sample Type: REGULAR           Latitude: 46-07'45"N    Longitude: 68-35'10"W
Elevation:  232   Surface Temp: 10.5  Stratified: MIXED      Site Depth:   0.9
Lake Area:       6 Watershed Area:    6990 WA/LA:   1184.8 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  0.9   Turbidity:   1.2      Color:   20
Closed pH: 7.10        Equil. pH: 7.67               ANC:  270.9        DOC:  3.51
Closed DIC:  3.47   Equil. DIC:  3.01    Meas. Cond:  39.2   Cal. Cond:  41.6
Ca:  235.9          Mg:   86.0       Na:   55.4       K:  10.0       NH4:  1.5
SO4:   81.4       HCO3:  254.0       Cl:    18.9      NO3:   0.0          F:  1.3
Sum Cations:  388.9  Sum Anions:  356.2  Cations/Anions: 1.09   Tot. P:   2.3
Tot. Al:   37.6    Ext. Al:  11.7     Fe:   59.0      Mn:    3.0     SiO2:  3.11

ID: 1E2-023   Name: ROBINSON POND                     State: ME  Date: 17OCT84
Sample Type: REGULAR           Latitude: 46-01'45"N    Longitude: 69-57'30"W
Elevation:  518   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   0.9
Lake Area:      14 Watershed Area:     290 WA/LA:     21.0 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.9   Turbidity:   0.7      Color:   30
Closed pH: 7.40        Equil. pH: 7.78               ANC:  417.4        DOC:  8.11
Closed DIC:  4.65   Equil. DIC:  4.41    Meas. Cond:  55.1   Cal. Cond:  58.1
Ca:  329.0          Mg:  201.1       Na:   32.2       K:   5.2       NH4:  7.1
SO4:   92.3       HCO3:  367.6       Cl:    15.8      NO3:   2.8          F:  1.1
Sum Cations:  574.7  Sum Anions:  480.9  Cations/Anions: 1.20   Tot. P:   1.2
Tot. Al:   75.6    Ext. Al:  14.5     Fe:   26.0      Mn:    5.0     SiO2:  0.56

ID: 1E2-025   Name: (NO NAME)                         State: ME  Date: 17OCT84
Sample Type: REGULAR           Latitude: 45-53'30"N    Longitude: 69-46'25"W
Elevation:  332   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   0.9
Lake Area:       7 Watershed Area:    3219 WA/LA:    459.9 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  0.7   Turbidity:   0.8      Color:   45
Closed pH: 6.80        Equil. pH: 7.65               ANC:  322.0        DOC:  8.38
Closed DIC:  4.62   Equil. DIC:  3.32    Meas. Cond:  42.8   Cal. Cond:  43.6
Ca:  277.6          Mg:  103.2       Na:   45.9       K:   9.4       NH4:  3.1
SO4:   53.5       HCO3:  284.3       Cl:    17.2      NO3:   0.7          F:  1.4
Sum Cations:  439.2  Sum Anions:  357.5  Cations/Anions: 1.23   Tot. P:   4.2
Tot. Al:   62.7    Ext. Al:  12.2     Fe:  270.0      Mn:   96.0     SiO2:  2.40
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E2-027   Name: TOMHEGAN POND                         State: ME  Date: 17OCT84
Sample Type: REGULAR               Latitude: 45-48'00"N    Longitude: 69-53'30"W
Elevation:  369   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   2.1
Lake Area:     123 Watershed Area:   3173 WA/LA:     25.8 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  2.1   Turbidity:   1.7      Color:   40
Closed pH: 6.93       Equil. pH: 7.33              ANC:  171.6         DOC: 10.21
Closed DIC:  1.91   Equil. DIC:  1.63    Meas. Cond:  38.7   Cal. Cond:  36.8
Ca:  204.8          Mg:   61.6        Na:   37.4        K:  10.5      NH4: 29.9
SO4:  113.6       HCO3:  139.7       Cl:   13.3       NO3:   0.9         F:  1.4
Sum Cations:  344.4  Sum Anions:  269.0  Cations/Anions: 1.28   Tot. P:   3.1
Tot. Al:  138.6    Ext. Al:  16.1     Fe:    71.0      Mn:    10.0    SiO2:  1.51

ID: 1E2-029   Name: PLEASANT LAKE                         State: ME  Date: 21OCT84
Sample Type: REGULAR               Latitude: 45-04'00"N    Longitude: 67-29'00"W
Elevation:   71   Surface Temp: 11.8  Stratified: MIXED      Site Depth:  10.5
Lake Area:     140 Watershed Area:     803 WA/LA:      5.8 Hydro Type: DRAINAGE
Residence Time:  1.12  Secchi Depth:  5.9   Turbidity:   0.3      Color:    5
Closed pH: 6.97       Equil. pH: 7.03              ANC:   84.5         DOC:  2.58
Closed DIC:  1.05   Equil. DIC:  0.98    Meas. Cond:  29.5   Cal. Cond:  30.1
Ca:   99.2          Mg:   44.3        Na:  104.2        K:   5.7      NH4:  0.9
SO4:   73.3       HCO3:   73.0       Cl:   90.5       NO3:   0.2         F:  1.1
Sum Cations:  254.3  Sum Anions:  238.3  Cations/Anions: 1.07   Tot. P:   5.4
Tot. Al:   67.8    Ext. Al:   0.0     Fe:    11.0      Mn:     4.0    SiO2:  0.68

ID: 1E2-030   Name: ROUND LAKE                            State: ME  Date: 21OCT84
Sample Type: REGULAR               Latitude: 45-01'00"N    Longitude: 67-16'00"W
Elevation:   23   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   3.6
Lake Area:     223 Watershed Area:   2637 WA/LA:     11.8 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  3.6   Turbidity:   0.5      Color:   20
Closed pH: 7.17       Equil. pH: 7.45              ANC:  178.9         DOC:  4.89
Closed DIC:  2.01   Equil. DIC:  1.98    Meas. Cond:  36.5   Cal. Cond:  37.9
Ca:  164.5          Mg:   59.6        Na:  106.3        K:  12.2      NH4:  1.1
SO4:   59.9       HCO3:  171.4       Cl:   78.5       NO3:   0.5         F:  2.7
Sum Cations:  343.7  Sum Anions:  313.2  Cations/Anions: 1.10   Tot. P:   9.2
Tot. Al:   27.2    Ext. Al:   1.2     Fe:    22.0      Mn:     6.0    SiO2:  2.08

ID: 1E2-037   Name: MOOSE POND                            State: ME  Date: 24OCT84
Sample Type: REGULAR               Latitude: 44-28'30"N    Longitude: 69-58'00"W
Elevation:  120   Surface Temp: 12.8  Stratified: MIXED      Site Depth:   4.5
Lake Area:      27 Watershed Area:    298 WA/LA:     10.9 Hydro Type: DRAINAGE
Residence Time:  0.35  Secchi Depth:  3.9   Turbidity:   0.8      Color:   15
Closed pH: 7.34       Equil. pH: 7.70              ANC:  370.8         DOC:  4.39
Closed DIC:  3.97   Equil. DIC:  4.12    Meas. Cond:  51.5   Cal. Cond:  53.4
Ca:  298.7          Mg:   90.2        Na:   87.7        K:  21.4      NH4:  1.1
SO4:   57.4       HCO3:  330.3       Cl:   69.8       NO3:   0.2         F:  2.3
Sum Cations:  499.0  Sum Anions:  461.1  Cations/Anions: 1.08   Tot. P:  13.8
Tot. Al:   23.7    Ext. Al:   3.5     Fe:    73.0      Mn:     7.0    SiO2:  1.21

ID: 1E2-038   Name: NELSON POND                           State: ME  Date: 24OCT84
Sample Type: REGULAR               Latitude: 44-24'55"N    Longitude: 70-15'45"W
Elevation:  238   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   4.9
Lake Area:       7 Watershed Area:     31 WA/LA:      4.4 Hydro Type: DRAINAGE
Residence Time:  0.84  Secchi Depth:  4.4   Turbidity:   0.6      Color:    5
Closed pH: 5.84       Equil. pH: 6.06              ANC:   15.6         DOC:  3.19
Closed DIC:  0.46   Equil. DIC:  0.21    Meas. Cond:  20.8   Cal. Cond:  22.0
Ca:   81.5          Mg:   25.0        Na:   45.1        K:   6.4      NH4:  0.8
SO4:  121.1       HCO3:   10.3       Cl:   27.4       NO3:   1.0         F:  2.4
Sum Cations:  160.6  Sum Anions:  162.2  Cations/Anions: 0.99   Tot. P:   6.0
Tot. Al:   56.2    Ext. Al:  23.8     Fe:     0.0      Mn:    27.0    SiO2:  0.10
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E2-039   Name: NORTHEAST POND                         State: ME  Date: 24OCT84
Sample Type: REGULAR            Latitude: 44-20'30"N    Longitude: 70-21'15"W
Elevation:  130   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   0.9
Lake Area:        5 Watershed Area:     228 WA/LA:     50.7 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  0.6   Turbidity:   2.1       Color:   90
Closed pH: 6.12         Equil. pH: 7.37               ANC:  188.8         DOC: 13.38
Closed DIC:  4.87   Equil. DIC:  1.56    Meas. Cond:  33.6   Cal. Cond:  35.4
Ca:  175.3          Mg:    59.1         Na:   93.7          K:   9.1      NH4:  2.0
SO4:    49.3      HCO3:  187.1        Cl:    50.6         NO3:   0.4         F:  1.6
Sum Cations:  339.4  Sum Anions:  289.0  Cations/Anions: 1.17   Tot. P:  11.9
Tot. Al:  102.9    Ext. Al:  14.5     Fe:   154.0      Mn:    29.0     SiO2:  8.99


ID: 1E2-043   Name: THOMPSON LAKE                          State: ME  Date: 25OCT84
Sample Type: REGULAR            Latitude: 44-06'00"N    Longitude: 70-30'00"W
Elevation:   99   Surface Temp: 13.4  Stratified: MIXED      Site Depth:  31.7
Lake Area:     1768 Watershed Area:   14912 WA/LA:      8.4 Hydro Type: DRAINAGE
Residence Time:  3.11  Secchi Depth:  4.9   Turbidity:   0.4       Color:    5
Closed pH: 7.12         Equil. pH: 7.22               ANC:  113.7         DOC:  2.85
Closed DIC:  1.20   Equil. DIC:  1.24    Meas. Cond:  29.3   Cal. Cond:  31.8
Ca:  134.1          Mg:    42.8         Na:   84.7          K:   9.3      NH4:  0.9
SO4:    90.2      HCO3:   93.4        Cl:    66.0         NO3:   0.0         F:  1.8
Sum Cations:  271.8  Sum Anions:  251.5  Cations/Anions: 1.08   Tot. P:   4.2
Tot. Al:   21.8    Ext. Al:   6.8     Fe:    41.0      Mn:     9.0     SiO2:  1.65


ID: 1E2-044   Name: TRIPP POND                             State: ME  Date: 25OCT84
Sample Type: REGULAR            Latitude: 44-03'00"N    Longitude: 70-26'00"W
Elevation:   93   Surface Temp: 13.3  Stratified: MIXED      Site Depth:   9.1
Lake Area:      296 Watershed Area:    1981 WA/LA:      6.7 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  3.2   Turbidity:   0.6       Color:   15
Closed pH: 6.91         Equil. pH: 7.26               ANC:  113.7         DOC:  3.99
Closed DIC:  1.29   Equil. DIC:  1.20    Meas. Cond:  34.3   Cal. Cond:  36.3
Ca:  129.8          Mg:    44.6         Na:  128.0          K:  11.5      NH4:  1.1
SO4:    74.7      HCO3:   91.6        Cl:   114.0         NO3:   0.1         F:  1.9
Sum Cations:  315.1  Sum Anions:  282.4  Cations/Anions: 1.12   Tot. P:   5.9
Tot. Al:   19.3    Ext. Al:   5.9     Fe:    11.0      Mn:     3.0     SiO2:  1.22


ID: 1E2-045   Name: SEBAGO LAKE                            State: ME  Date: 29OCT84
Sample Type: REGULAR            Latitude: 43-50'00"N    Longitude: 70-30'00"W
Elevation:   81   Surface Temp: 12.5  Stratified: STRONG     Site Depth:  88.4
Lake Area:    11808 Watershed Area:  111459 WA/LA:      9.4 Hydro Type: DRAINAGE
Residence Time:  7.82  Secchi Depth:  6.4   Turbidity:   0.9       Color:   10
Closed pH: 6.99         Equil. pH: 7.15               ANC:   99.7         DOC:  2.76
Closed DIC:  1.19   Equil. DIC:  1.03    Meas. Cond:  33.8   Cal. Cond:  35.7
Ca:  118.4          Mg:    43.3         Na:  123.8          K:  11.8      NH4:  1.2
SO4:    89.7      HCO3:   79.8        Cl:   104.7         NO3:   4.2         F:  2.5
Sum Cations:  298.5  Sum Anions:  281.0  Cations/Anions: 1.06   Tot. P:   0.0
Tot. Al:   85.3    Ext. Al:   5.6     Fe:     6.0      Mn:     1.0     SiO2:  1.69


ID: 1E2-046   Name: RICH MILL POND                         State: ME  Date: 29OCT84
Sample Type: REGULAR            Latitude: 43-47'30"N    Longitude: 70-34'30"W
Elevation:   88   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   2.2
Lake Area:       32 Watershed Area:    1010 WA/LA:     31.6 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  1.6   Turbidity:   0.5       Color:   45
Closed pH: 6.23         Equil. pH: 7.25               ANC:  128.2         DOC:  5.70
Closed DIC:  3.11   Equil. DIC:  1.40    Meas. Cond:  36.0   Cal. Cond:  36.9
Ca:  100.2          Mg:    55.9         Na:  146.1          K:  13.9      NH4:  3.3
SO4:    44.2      HCO3:  113.9        Cl:   136.9         NO3:   0.8         F:  2.1
Sum Cations:  319.7  Sum Anions:  297.9  Cations/Anions: 1.07   Tot. P:   8.9
Tot. Al:   26.9    Ext. Al:   5.6     Fe:    80.0      Mn:     4.0     SiO2:  2.46
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E2-047   Name: ROUND POND                           State: ME  Date: 23OCT84
Sample Type: REGULAR            Latitude: 44-12'15"N   Longitude: 69-17'30"W
Elevation:   10   Surface Temp: 13.6  Stratified: MIXED      Site Depth:  10.4
Lake Area:      93 Watershed Area:  32041 WA/LA:   344.9 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.9  Turbidity:  1.0     Color:    25
Closed pH: 7.19        Equil. pH: 7.44            ANC:  197.7         DOC:  5.04
Closed DIC:  2.08  Equil. DIC:  2.01   Meas. Cond:  38.7  Cal. Cond:  41.5
Ca:  168.1          Mg:   67.6      Na:  113.8        K:  17.5       NH4:  0.7
SO4:   77.9       HCO3:  179.5      Cl:  86.2       NO3:   0.0          F:  1.6
Sum Cations:  367.7  Sum Anions:  345.5  Cations/Anions: 1.06   Tot. P:  12.7
Tot. Al:   62.9   Ext. Al:   4.5    Fe:  173.0      Mn:   29.0    SiO2:  2.03

ID: 1E2-048   Name: LITTLE MEDOMAK LAKE                  State: ME  Date: 23OCT84
Sample Type: REGULAR            Latitude: 44-11'25"N   Longitude: 69-20'30"W
Elevation:   69   Surface Temp: 13.4  Stratified: MIXED      Site Depth:   7.6
Lake Area:      31 Watershed Area:    220 WA/LA:     7.2 Hydro Type: DRAINAGE
Residence Time:  0.85  Secchi Depth:  5.3  Turbidity:  0.6     Color:    25
Closed pH: 7.03        Equil. pH: 7.26            ANC:  124.0         DOC:  3.15
Closed DIC:  1.34  Equil. DIC:  1.25   Meas. Cond:  28.4  Cal. Cond:  30.3
Ca:  100.9          Mg:   48.5      Na:   92.2        K:  12.8       NH4:  0.5
SO4:   69.8       HCO3:  119.4      Cl:  66.7       NO3:   0.0          F:  1.5
Sum Cations:  255.0  Sum Anions:  257.6  Cations/Anions: 0.99   Tot. P:   3.5
Tot. Al:   21.9   Ext. Al:   3.5    Fe:  135.0      Mn:    4.0    SiO2:  0.69

ID: 1E2-049   Name: GROSS POND                           State: ME  Date: 23OCT84
Sample Type: REGULAR            Latitude: 44-03'30"N   Longitude: 69-23'35"W
Elevation:   29   Surface Temp: 13.5  Stratified: STRONG     Site Depth:  16.8
Lake Area:       5 Watershed Area:     13 WA/LA:     2.7 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  7.7  Turbidity:  0.7     Color:     5
Closed pH: 5.25        Equil. pH: 5.19            ANC:    0.4         DOC:  2.53
Closed DIC:  0.29  Equil. DIC:  0.05   Meas. Cond:  26.7  Cal. Cond:  27.5
Ca:   38.4          Mg:   34.1      Na:  112.6        K:   5.3       NH4:  0.4
SO4:   82.4       HCO3:    3.6      Cl:  110.8      NO3:   0.2          F:  1.5
Sum Cations:  196.6  Sum Anions:  198.4  Cations/Anions: 0.99   Tot. P:   3.1
Tot. Al:   59.4   Ext. Al:  33.9    Fe:   71.0      Mn:   40.0    SiO2:  0.45

ID: 1E2-051   Name: JOYS POND                            State: ME  Date: 24OCT84
Sample Type: REGULAR            Latitude: 44-13'20"N   Longitude: 69-40-02"W
Elevation:   55   Surface Temp: 12.4  Stratified: MIXED      Site Depth:   4.5
Lake Area:       9 Watershed Area:    119 WA/LA:    13.5 Hydro Type: DRAINAGE
Residence Time:  0.29  Secchi Depth:  2.5  Turbidity:  0.8     Color:    30
Closed pH: 6.81        Equil. pH: 7.36            ANC:  159.6         DOC:  4.70
Closed DIC:  1.89  Equil. DIC:  1.58   Meas. Cond:  52.0  Cal. Cond:  55.1
Ca:  221.7          Mg:   58.2      Na:  157.9        K:  18.0       NH4:  0.8
SO4:  170.3       HCO3:  135.8      Cl:  127.0      NO3:   0.2          F:  2.5
Sum Cations:  456.6  Sum Anions:  435.9  Cations/Anions: 1.05   Tot. P:   6.5
Tot. Al:   48.3   Ext. Al:   5.2    Fe:  237.0      Mn:   17.0    SiO2:  5.99

ID: 1E2-052   Name: SUMMIT POND                          State: ME  Date: 17OCT84
Sample Type: REGULAR            Latitude: 46-01'40"N   Longitude: 69-52'50"W
Elevation:  479   Surface Temp:  9.2  Stratified: MIXED      Site Depth:   1.0
Lake Area:      19 Watershed Area:    215 WA/LA:    11.6 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  1.0  Turbidity:  0.4     Color:    10
Closed pH: 7.68        Equil. pH: 7.89            ANC:  485.6         DOC:  4.40
Closed DIC:  5.43  Equil. DIC:  5.38   Meas. Cond:  59.7  Cal. Cond:  61.8
Ca:  373.3          Mg:  154.2      Na:   50.1        K:   3.8       NH4:  2.2
SO4:  101.1       HCO3:  439.0      Cl:    7.8      NO3:   0.9          F:  1.5
Sum Cations:  583.5  Sum Anions:  552.4  Cations/Anions: 1.06   Tot. P:   2.0
Tot. Al:  100.5   Ext. Al:  13.5    Fe:    0.0      Mn:    2.0    SiO2:  0.98
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E2-053   Name: HUTCHINSON POND                    State: ME  Date: 24OCT84
Sample Type: REGULAR            Latitude: 44-15'52"N    Longitude: 69-52'21"W
Elevation:   52   Surface Temp: 13.0  Stratified: MIXED      Site Depth:   6.7
Lake Area:      42 Watershed Area:    1476 WA/LA:     34.8 Hydro Type: DRAINAGE
Residence Time:  0.23  Secchi Depth:  3.1  Turbidity:   0.5      Color:   25
Closed pH: 6.89       Equil. pH: 7.41              ANC:  159.6        DOC:  5.36
Closed DIC:  1.78  Equil. DIC:  1.56   Meas. Cond:  33.1   Cal. Cond:  34.0
Ca:  180.1         Mg:    41.4        Na:   72.4          K:  12.9      NH4:  0.9
SO4:   87.8      HCO3:  130.4        Cl:   45.4        NO3:   0.2        F:  1.9
Sum Cations:  307.8  Sum Anions:  265.8  Cations/Anions: 1.16   Tot. P:   5.7
Tot. Al:   34.7   Ext. Al:    4.2    Fe:    45.0     Mn:     7.0    SiO2:  1.42


ID: 1E2-054   Name: BRETTUNS POND                      State: ME  Date: 24OCT84
Sample Type: REGULAR            Latitude: 44-23'30"N    Longitude: 70-15'00"W
Elevation:  122   Surface Temp: 12.5  Stratified: MIXED      Site Depth:  12.2
Lake Area:      68 Watershed Area:    1041 WA/LA:     15.3 Hydro Type: DRAINAGE
Residence Time:  0.69  Secchi Depth:  2.3  Turbidity:   1.0      Color:   20
Closed pH: 7.32       Equil. pH: 7.46              ANC:  232.1        DOC:  3.05
Closed DIC:  2.46  Equil. DIC:  2.64   Meas. Cond:  47.8   Cal. Cond:  51.6
Ca:  235.5         Mg:    57.5        Na:  124.8          K:  23.0      NH4:  0.6
SO4:  112.7      HCO3:  211.2        Cl:  104.4        NO3:   0.1        F:  1.9
Sum Cations:  441.4  Sum Anions:  430.6  Cations/Anions: 1.03   Tot. P:   5.2
Tot. Al:   13.1   Ext. Al:    3.5    Fe:    81.0     Mn:     9.0    SiO2:  1.96


ID: 1E2-055   Name: DUNDEE POND                        State: ME  Date: 29OCT84
Sample Type: REGULAR            Latitude: 43-47'18"N    Longitude: 70-27'17"W
Elevation:   57   Surface Temp: 12.6  Stratified: MIXED      Site Depth:  11.9
Lake Area:      75 Watershed Area:  113536 WA/LA:   1515.8 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  4.0  Turbidity:   0.3      Color:   10
Closed pH: 6.80       Equil. pH: 7.17              ANC:  107.8        DOC:  2.74
Closed DIC:  1.41  Equil. DIC:  1.21   Meas. Cond:  35.8   Cal. Cond:  37.1
Ca:  122.8         Mg:    44.9        Na:  125.9          K:  12.5      NH4:  1.4
SO4:   92.0      HCO3:   90.0        Cl:  109.1        NO3:   3.5        F:  2.5
Sum Cations:  307.7  Sum Anions:  297.1  Cations/Anions: 1.04   Tot. P:   3.0
Tot. Al:   76.7   Ext. Al:    5.0    Fe:     0.0     Mn:     0.0    SiO2:  1.62


ID: 1E2-056   Name: PEABODY POND                       State: ME  Date: 25OCT84
Sample Type: REGULAR            Latitude: 43-56'32"N    Longitude: 70-41'13"W
Elevation:  147   Surface Temp: 13.2  Stratified: MIXED      Site Depth:  12.2
Lake Area:     287 Watershed Area:    1518 WA/LA:      5.3 Hydro Type: DRAINAGE
Residence Time:  1.80  Secchi Depth:  6.9  Turbidity:   0.3      Color:   20
Closed pH: 6.65       Equil. pH: 6.97              ANC:   67.4        DOC:  2.83
Closed DIC:  0.92  Equil. DIC:  0.76   Meas. Cond:  21.2   Cal. Cond:  22.3
Ca:   83.8         Mg:    30.8        Na:   65.0          K:   7.1      NH4:  2.6
SO4:   70.9      HCO3:   54.8        Cl:   44.4        NO3:   0.0        F:  3.1
Sum Cations:  189.5  Sum Anions:  173.3  Cations/Anions: 1.09   Tot. P:   4.6
Tot. Al:   24.4   Ext. Al:    6.8    Fe:    15.0     Mn:     3.0    SiO2:  1.44


ID: 1E2-057   Name: CASSIDY DEADWATER                  State: ME  Date: 17OCT84
Sample Type: REGULAR            Latitude: 45-58'38"N    Longitude: 69-37'34"W
Elevation:  314   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   0.9
Lake Area:      93 Watershed Area:   14227 WA/LA:    152.3 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  0.9  Turbidity:   0.6      Color:   45
Closed pH: 7.66       Equil. pH: 7.63              ANC:  329.3        DOC:  7.90
Closed DIC:  2.96  Equil. DIC:  3.09   Meas. Cond:  44.4   Cal. Cond:  46.3
Ca:  308.2         Mg:    91.3        Na:   42.2          K:   9.6      NH4:  1.3
SO4:   82.5      HCO3:  253.9        Cl:   27.8        NO3:   0.3        F:  1.1
Sum Cations:  452.6  Sum Anions:  366.6  Cations/Anions: 1.23   Tot. P:   1.6
Tot. Al:  153.4   Ext. Al:   17.9    Fe:    95.0     Mn:    11.0    SiO2:  2.25
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E2-058   Name: CRESCENT POND                        State: ME  Date: 16OCT84
Sample Type: REGULAR              Latitude: 46-25'34"N    Longitude: 69-36'35"W
Elevation:  371   Surface Temp: 11.0  Stratified: MIXED      Site Depth:  12.2
Lake Area:     127 Watershed Area:    1935 WA/LA:     15.3 Hydro Type: DRAINAGE
Residence Time:  0.68  Secchi Depth:  3.0   Turbidity:   0.4     Color:   30
Closed pH: 6.94        Equil. pH: 7.45              ANC:  173.5        DOC:  5.99
Closed DIC:  2.14   Equil. DIC:  1.82    Meas. Cond:  31.7   Cal. Cond:  31.7
Ca:  181.3          Mg:   83.5       Na:    36.2          K:   8.6       NH4:  1.6
SO4:   81.5       HCO3:  147.9       Cl:    7.7         NO3:   2.4         F:  1.2
Sum Cations:  311.4  Sum Anions:  240.9  Cations/Anions: 1.29   Tot. P:  44.8
Tot. Al:   61.2    Ext. Al:  13.7    Fe:    38.0      Mn:    18.0    SiO2:  2.75

ID: 1E2-059   Name: WESTERN LAKE                         State: ME  Date: 21OCT84
Sample Type: REGULAR              Latitude: 45-04'20"N    Longitude: 67-10'22"W
Elevation:   85   Surface Temp: 10.8  Stratified: MIXED      Site Depth:   2.7
Lake Area:      27 Watershed Area:     357 WA/LA:     13.1 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  2.5   Turbidity:   0.9     Color:   18
Closed pH: 6.73        Equil. pH: 6.91              ANC:   73.6        DOC:  5.86
Closed DIC:  0.96   Equil. DIC:  0.78    Meas. Cond:  29.4   Cal. Cond:  28.7
Ca:   95.1          Mg:   41.5       Na:   101.3          K:   6.1       NH4:  1.2
SO4:   78.7       HCO3:   62.5       Cl:   77.4         NO3:   0.8         F:  2.4
Sum Cations:  245.4  Sum Anions:  221.8  Cations/Anions: 1.11   Tot. P:  10.5
Tot. Al:   20.1    Ext. Al:   1.0    Fe:     6.0      Mn:    10.5    SiO2:  0.16

ID: 1E2-060   Name: WILEY POND                           State: ME  Date: 16OCT84
Sample Type: REGULAR              Latitude: 46-00'04"N    Longitude: 68-32'26"W
Elevation:  235   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   5.5
Lake Area:      11 Watershed Area:     521 WA/LA:     45.7 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  3.3   Turbidity:   0.4     Color:   70
Closed pH: 6.87        Equil. pH: 7.27              ANC:  150.8        DOC: 10.17
Closed DIC:  1.72   Equil. DIC:  1.40    Meas. Cond:  26.8   Cal. Cond:  27.2
Ca:  192.4          Mg:   55.0       Na:    35.1          K:   5.6       NH4:  2.2
SO4:   58.2       HCO3:  112.6       Cl:     9.7        NO3:   0.0         F:  1.1
Sum Cations:  290.4  Sum Anions:  181.7  Cations/Anions: 1.60   Tot. P:   1.3
Tot. Al:   98.2    Ext. Al:  24.7    Fe:    55.0      Mn:     0.0    SiO2:  0.42

ID: 1E2-061   Name: LILY BOG                             State: ME  Date: 19OCT84
Sample Type: REGULAR              Latitude: 45-03'25"N    Longitude: 69-31'58"W
Elevation:  174   Surface Temp:  9.6  Stratified: MIXED      Site Depth:   3.0
Lake Area:       7 Watershed Area:    1930 WA/LA:    268.1 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  3.6   Turbidity:   0.5     Color:   45
Closed pH: 6.97        Equil. pH: 7.51              ANC:  293.6        DOC:  7.90
Closed DIC:  3.69   Equil. DIC:  3.16    Meas. Cond:  40.4   Cal. Cond:  41.8
Ca:  238.6          Mg:   91.6       Na:    74.9          K:   8.9       NH4:  2.1
SO4:   51.1       HCO3:  269.1       Cl:    25.6        NO3:   0.1         F:  1.3
Sum Cations:  416.2  Sum Anions:  347.6  Cations/Anions: 1.20   Tot. P:   9.0
Tot. Al:  341.2    Ext. Al:   2.4    Fe:    42.0      Mn:    12.0    SiO2:  0.77

ID: 1E2-062   Name: POLAND POND                          State: ME  Date: 16OCT84
Sample Type: REGULAR              Latitude: 46-15'35"N    Longitude: 69-35'30"W
Elevation:  307   Surface Temp: 10.7  Stratified: MIXED      Site Depth:   3.7
Lake Area:     173 Watershed Area:    7019 WA/LA:     40.6 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  2.3   Turbidity:   1.0     Color:   50
Closed pH: 7.44        Equil. pH: 7.80              ANC:  354.6        DOC:  6.94
Closed DIC:  3.84   Equil. DIC:  3.70    Meas. Cond:  47.4   Cal. Cond:  49.8
Ca:  346.3          Mg:   99.1       Na:    40.9          K:   9.4       NH4:  1.8
SO4:   83.8       HCO3:  300.0       Cl:    10.0        NO3:   1.4         F:  1.2
Sum Cations:  497.5  Sum Anions:  397.2  Cations/Anions: 1.25   Tot. P:  12.9
Tot. Al:  124.8    Ext. Al:   9.7    Fe:   127.0      Mn:    33.0    SiO2:  2.88
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E2-063   Name: KALERS POND                        State: ME  Date: 23OCT84
Sample Type: REGULAR            Latitude: 44-06'29"N    Longitude: 69-25'22"W
Elevation:   38   Surface Temp: 13.4  Stratified: MIXED      Site Depth:   2.4
Lake Area:      36 Watershed Area:     171 WA/LA:      4.8 Hydro Type: DRAINAGE
Residence Time:  0.40  Secchi Depth:  2.4   Turbidity:   0.5      Color:   10
Closed pH: 6.33        Equil. pH: 6.64               ANC:   38.1        DOC:  3.72
Closed DIC:  0.55   Equil. DIC:  0.33    Meas. Cond:  22.5   Cal. Cond:  23.9
Ca:   50.5          Mg:   35.8        Na:   94.5          K:   7.2       NH4:  0.7
SO4:   71.4        HCO3:   31.3        Cl:   82.8        NO3:   0.1          F:  2.0
Sum Cations:  189.1  Sum Anions:  187.7  Cations/Anions: 1.01   Tot. P:   3.2
Tot. Al:   30.5    Ext. Al:    5.1     Fe:   29.0       Mn:   12.0    SiO2:  0.43

ID: 1E2-065   Name: TARKILL POND                       State: ME  Date: 29OCT84
Sample Type: REGULAR            Latitude: 43-50'36"N    Longitude: 70-25'58"W
Elevation:   88   Surface Temp: 11.0  Stratified: MIXED      Site Depth:   1.2
Lake Area:      11 Watershed Area:      80 WA/LA:      7.6 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  1.2   Turbidity:   0.5      Color:   45
Closed pH: 6.81        Equil. pH: 7.67               ANC:  328.6        DOC:  6.88
Closed DIC:  4.69   Equil. DIC:  3.63    Meas. Cond: 118.0   Cal. Cond: 122.3
Ca:  223.8          Mg:   95.3        Na:  658.6          K:  37.3       NH4:  2.2
SO4:  119.7        HCO3:  272.5        Cl:  604.2        NO3:   0.6          F:  2.2
Sum Cations: 1017.3  Sum Anions:  999.4  Cations/Anions: 1.02   Tot. P:   8.0
Tot. Al:   44.3    Ext. Al:    7.9     Fe:   64.0       Mn:   12.0    SiO2:  8.24

ID: 1E2-067   Name: JOE POND                           State: ME  Date: 24OCT84
Sample Type: REGULAR            Latitude: 44-24'26"N    Longitude: 69-49'25"W
Elevation:   83   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   4.8
Lake Area:      11 Watershed Area:      41 WA/LA:      3.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.9   Turbidity:   0.8      Color:  100
Closed pH: 4.32        Equil. pH: 4.34               ANC:  -45.6        DOC: 10.80
Closed DIC:  0.53   Equil. DIC:  0.15    Meas. Cond:  30.9   Cal. Cond:  27.5
Ca:   19.3          Mg:   21.0        Na:   37.5          K:   2.7       NH4:  0.6
SO4:   60.2        HCO3:    0.5        Cl:   29.6        NO3:   0.1          F:  0.8
Sum Cations:  126.8  Sum Anions:   91.2  Cations/Anions: 1.39   Tot. P:  10.0
Tot. Al:   99.6    Ext. Al:   21.1     Fe:  219.0       Mn:   18.0    SiO2:  0.35

ID: 1E2-069   Name: (NO NAME)                          State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-07'27"N    Longitude: 68-46'45"W
Elevation:  248   Surface Temp: 11.2  Stratified: MIXED      Site Depth:   7.3
Lake Area:       6 Watershed Area:     104 WA/LA:     18.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.1   Turbidity:   1.0      Color:   55
Closed pH: 7.23        Equil. pH: 7.55               ANC:  247.7        DOC:  5.82
Closed DIC:  2.87   Equil. DIC:  2.62    Meas. Cond:  32.6   Cal. Cond:  32.4
Ca:  172.9          Mg:  109.3        Na:   41.6          K:   6.2       NH4:  1.1
SO4:   39.4        HCO3:  217.8        Cl:    9.5        NO3:   0.0          F:  1.1
Sum Cations:  331.2  Sum Anions:  268.2  Cations/Anions: 1.23   Tot. P:   5.9
Tot. Al:   45.0    Ext. Al:   14.5     Fe:  202.0       Mn:   17.0    SiO2:  2.63

ID: 1E2-070   Name: TARBOX POND                        State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-11'42"N    Longitude: 69-31'50"W
Elevation:  302   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   1.0
Lake Area:      22 Watershed Area:     223 WA/LA:     10.1 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  0.9   Turbidity:   0.6      Color:  125
Closed pH: 6.76        Equil. pH: 7.17               ANC:  138.4        DOC: 16.49
Closed DIC:  1.32   Equil. DIC:  0.98    Meas. Cond:  28.6   Cal. Cond:  27.1
Ca:  163.1          Mg:   97.0        Na:   43.1          K:   9.2       NH4:  1.4
SO4:   48.8        HCO3:   95.6        Cl:   13.2        NO3:   0.2          F:  1.4
Sum Cations:  313.9  Sum Anions:  159.3  Cations/Anions: 1.97   Tot. P:   5.1
Tot. Al:  160.4    Ext. Al:   19.9     Fe:   86.0       Mn:    0.0    SiO2:  0.99
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E2-071   Name: ROSS POND                          State: ME  Date: 23OCT84
Sample Type: REGULAR           Latitude: 43-55'20"N   Longitude: 69-29'40"W
Elevation:   37   Surface Temp: 13.3  Stratified: MIXED     Site Depth:   6.4
Lake Area:       7 Watershed Area:     47 WA/LA:     7.1 Hydro Type: DRAINAGE
Residence Time:  0.74  Secchi Depth:  5.1   Turbidity:  0.4     Color:   10
Closed pH: 6.22        Equil. pH: 6.61            ANC:   40.1        DOC:  4.51
Closed DIC:  0.66   Equil. DIC:  0.31    Meas. Cond:  28.7   Cal. Cond:  30.8
Ca:   66.2          Mg:   42.7       Na:  124.4         K:   6.9       NH4:  0.6
SO4:   83.4       HCO3:   37.5       Cl:  121.8       NO3:   0.1         F:  1.4
Sum Cations:  241.2  Sum Anions:  244.2  Cations/Anions: 0.99   Tot. P:   4.8
Tot. Al:   37.7    Ext. Al:   8.5    Fe:    39.0      Mn:     3.0    SiO2:  0.06

ID: 1E2-073   Name: (NO NAME)                          State: ME  Date: 17OCT84
Sample Type: REGULAR           Latitude: 45-53'08"N   Longitude: 69-26'58"W
Elevation:  357   Surface Temp: 10.6  Stratified: MIXED     Site Depth:   1.1
Lake Area:       4 Watershed Area:    158 WA/LA:    42.7 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.1   Turbidity:  0.6     Color:   80
Closed pH: 6.80        Equil. pH: 7.29            ANC:  171.9        DOC: 11.72
Closed DIC:  1.99   Equil. DIC:  1.53    Meas. Cond:  29.6   Cal. Cond:  29.2
Ca:  177.4          Mg:   87.7       Na:   38.2         K:   2.7       NH4:  1.4
SO4:   66.2       HCO3:  134.9       Cl:    4.2       NO3:   0.3         F:  1.5
Sum Cations:  307.6  Sum Anions:  207.2  Cations/Anions: 1.48   Tot. P:   5.2
Tot. Al:   83.6    Ext. Al:  12.8    Fe:    83.0      Mn:     9.5    SiO2:  0.84

ID: 1E3-002   Name: OTTER POND                         State: ME  Date: 15OCT84
Sample Type: REGULAR           Latitude: 46-22'28"N   Longitude: 68-21'30"W
Elevation:  246   Surface Temp: 11.4  Stratified: MIXED     Site Depth:   1.9
Lake Area:      22 Watershed Area:     98 WA/LA:     4.4 Hydro Type: DRAINAGE
Residence Time:  0.32  Secchi Depth:  1.9   Turbidity:  0.6     Color:   20
Closed pH: 7.55        Equil. pH: 7.93            ANC:  500.7        DOC:  7.84
Closed DIC:  5.56   Equil. DIC:  5.54    Meas. Cond:  61.0   Cal. Cond:  60.6
Ca:  458.1          Mg:   98.6       Na:   30.5         K:   3.8       NH4:  7.2
SO4:   59.8       HCO3:  444.6       Cl:   13.8       NO3:   0.5         F:  0.9
Sum Cations:  598.2  Sum Anions:  521.3  Cations/Anions: 1.15   Tot. P:   1.3
Tot. Al:   15.1    Ext. Al:  11.0    Fe:    11.5      Mn:     4.0    SiO2:  0.50

ID: 1E3-006   Name: GLAZIER LAKE                       State: ME  Date: 15OCT84
Sample Type: REGULAR           Latitude: 47-13'40"N   Longitude: 69-00'00"W
Elevation:  170   Surface Temp: 11.7  Stratified: STRONG    Site Depth:  36.9
Lake Area:     282 Watershed Area: 133706 WA/LA:   474.8 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  4.0   Turbidity:  0.4     Color:   50
Closed pH: 7.54        Equil. pH: 8.05            ANC:  632.1        DOC:  6.12
Closed DIC:  7.02   Equil. DIC:  6.98    Meas. Cond:  76.9   Cal. Cond:  83.5
Ca:  657.2          Mg:   86.7       Na:   62.7         K:   8.5       NH4:  1.9
SO4:   93.6       HCO3:  560.9       Cl:   36.2       NO3:   6.5         F:  1.4
Sum Cations:  817.0  Sum Anions:  701.4  Cations/Anions: 1.16   Tot. P:   0.0
Tot. Al:   41.3    Ext. Al:  16.2    Fe:    93.0      Mn:     2.5    SiO2:  3.36

ID: 1E3-007   Name: WHEELOCK LAKE                      State: ME  Date: 15OCT84
Sample Type: REGULAR           Latitude: 47-12'00"N   Longitude: 68-43'00"W
Elevation:  244   Surface Temp:  9.6  Stratified: MIXED     Site Depth:   5.2
Lake Area:      52 Watershed Area:    629 WA/LA:    12.1 Hydro Type: DRAINAGE
Residence Time:  0.45  Secchi Depth:  5.1   Turbidity:  0.5     Color:   20
Closed pH: 7.58        Equil. pH: 7.74            ANC:  398.6        DOC:  3.23
Closed DIC:  4.09   Equil. DIC:  4.56    Meas. Cond:  48.5   Cal. Cond:  50.2
Ca:  356.8          Mg:   67.8       Na:   50.7         K:   4.7       NH4:  2.0
SO4:   65.3       HCO3:  365.3       Cl:    9.2       NO3:   0.2         F:  1.4
Sum Cations:  482.0  Sum Anions:  442.4  Cations/Anions: 1.09   Tot. P:   2.7
Tot. Al:   45.2    Ext. Al:   9.3    Fe:    36.0      Mn:     0.0    SiO2:  2.88
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E3-011   Name: ST. FROID LAKE                     State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-57'00"N    Longitude: 68-37'00"W
Elevation:  177   Surface Temp: 10.9  Stratified: MIXED      Site Depth:  35.0
Lake Area:    934 Watershed Area: 104635 WA/LA:    112.0 Hydro Type: DRAINAGE
Residence Time:  0.28  Secchi Depth:  2.9   Turbidity:   0.4     Color:   45
Closed pH: 7.38        Equil. pH: 7.80             ANC:  441.4        DOC:  6.64
Closed DIC:  3.51   Equil. DIC:  4.74    Meas. Cond:  55.6   Cal. Cond:  58.8
Ca:  426.4           Mg:   98.5       Na:   48.4         K:   6.9       NH4:  1.4
SO4:   82.0      HCO3:  387.6       Cl:    13.6       NO3:   3.0          F:  1.3
Sum Cations:  581.7  Sum Anions:  488.8  Cations/Anions: 1.19   Tot. P:   1.4
Tot. Al:   57.3    Ext. Al:  16.9     Fe:    40.0      Mn:     5.0    SiO2:  4.08
```

```
ID: 1E3-012   Name: DENNY POND                         State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-56'45"N    Longitude: 68-52'15"W
Elevation:  377   Surface Temp:  9.8  Stratified: MIXED      Site Depth:   9.1
Lake Area:     12 Watershed Area:     85 WA/LA:      7.1 Hydro Type: DRAINAGE
Residence Time:  1.01  Secchi Depth:  5.3   Turbidity:   0.4     Color:   10
Closed pH: 7.56        Equil. pH: 7.82             ANC:  410.8        DOC:  2.55
Closed DIC:  4.78   Equil. DIC:  4.58    Meas. Cond:  55.5   Cal. Cond:  57.7
Ca:  406.2           Mg:   57.0       Na:   51.2         K:  15.0       NH4:  0.8
SO4:  112.0      HCO3:  374.3       Cl:    10.5       NO3:   0.0          F:  5.2
Sum Cations:  530.2  Sum Anions:  503.4  Cations/Anions: 1.05   Tot. P:   2.4
Tot. Al:  102.1    Ext. Al:  14.5     Fe:    12.0      Mn:     0.0    SiO2:  1.37
```

```
ID: 1E3-013   Name: FISH RIVER LAKE                    State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-50'00"N    Longitude: 68-46'45"W
Elevation:  218   Surface Temp: 10.2  Stratified: MIXED      Site Depth:  13.4
Lake Area:   1026 Watershed Area:  32771 WA/LA:     31.9 Hydro Type: DRAINAGE
Residence Time:  0.37  Secchi Depth:  3.0   Turbidity:   0.8     Color:   40
Closed pH: 7.52        Equil. pH: 7.71             ANC:  353.7        DOC:  6.52
Closed DIC:  3.83   Equil. DIC:  3.74    Meas. Cond:  47.0   Cal. Cond:  48.7
Ca:  319.2           Mg:  104.3       Na:   45.1         K:   7.8       NH4:  0.6
SO4:   81.3      HCO3:  309.9       Cl:    10.7       NO3:   0.0          F:  1.4
Sum Cations:  477.1  Sum Anions:  404.4  Cations/Anions: 1.18   Tot. P:   3.1
Tot. Al:   31.5    Ext. Al:  12.2     Fe:    44.0      Mn:     3.0    SiO2:  3.60
```

```
ID: 1E3-014   Name: DEPOT LAKE                         State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-46'30"N    Longitude: 69-49'45"W
Elevation:  328   Surface Temp: 10.7  Stratified: MIXED      Site Depth:   1.0
Lake Area:    332 Watershed Area:   6470 WA/LA:     19.5 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  1.0   Turbidity:   1.0     Color:   45
Closed pH: 7.38        Equil. pH: 7.82             ANC:  443.7        DOC: 10.37
Closed DIC:  4.73   Equil. DIC:  4.46    Meas. Cond:  56.2   Cal. Cond:  58.3
Ca:  445.6           Mg:   99.8       Na:   41.2         K:   7.4       NH4:  2.4
SO4:   71.7      HCO3:  381.0       Cl:    10.7       NO3:   0.4          F:  1.5
Sum Cations:  596.5  Sum Anions:  466.9  Cations/Anions: 1.28   Tot. P:  52.5
Tot. Al:   98.6    Ext. Al:  19.4     Fe:    55.0      Mn:    26.0    SiO2:  2.07
```

```
ID: 1E3-015   Name: ROUND POND                         State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-46'00"N    Longitude: 69-16'00"W
Elevation:  238   Surface Temp:  9.8  Stratified: MIXED      Site Depth:   4.0
Lake Area:    290 Watershed Area: 188622 WA/LA:    651.1 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  2.9   Turbidity:   0.7     Color:   45
Closed pH: 7.29        Equil. pH: 7.68             ANC:  323.2        DOC:  7.17
Closed DIC:  3.51   Equil. DIC:  3.30    Meas. Cond:  46.5   Cal. Cond:  47.9
Ca:  313.4           Mg:  102.2       Na:   44.3         K:  10.5       NH4:  1.5
SO4:   92.0      HCO3:  267.4       Cl:    14.8       NO3:   3.3          F:  1.2
Sum Cations:  471.9  Sum Anions:  379.3  Cations/Anions: 1.24   Tot. P:   4.4
Tot. Al:   65.4    Ext. Al:   9.2     Fe:   105.0      Mn:    25.0    SiO2:  2.59
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E3-018   Name: MOUNTAIN POND                   State: ME  Date: 15OCT84
Sample Type: REGULAR            Latitude: 46-33'30"N   Longitude: 69-00'40"W
Elevation:  369   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   1.8
Lake Area:      29 Watershed Area:    442 WA/LA:     15.1 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  1.1   Turbidity:   1.2     Color:   40
Closed pH: 7.42        Equil. pH: 7.64              ANC:  278.7        DOC:  7.08
Closed DIC:  2.90   Equil. DIC:  3.06    Meas. Cond:  39.7   Cal. Cond:  40.6
Ca:  279.2          Mg:    72.9        Na:    36.7        K:    5.2      NH4:  3.2
SO4:    74.5      HCO3:  244.1       Cl:     9.3      NO3:    0.9         F:  1.0
Sum Cations:  397.2  Sum Anions:  330.3  Cations/Anions: 1.20   Tot. P:   3.8
Tot. Al:   69.2   Ext. Al:  19.9    Fe:    68.0     Mn:     0.0    SiO2:  2.85

ID: 1E3-022   Name: NUMBER NINE LAKE                State: ME  Date: 15OCT84
Sample Type: REGULAR            Latitude: 46-25'00"N   Longitude: 68-03'00"W
Elevation:  330   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   2.1
Lake Area:      40 Watershed Area:    438 WA/LA:     10.9 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  2.1   Turbidity:   0.5     Color:   30
Closed pH: 7.47        Equil. pH: 7.61              ANC:  228.1        DOC:  4.01
Closed DIC:  2.43   Equil. DIC:  2.52    Meas. Cond:  34.1   Cal. Cond:  35.2
Ca:  235.4          Mg:    57.2        Na:    36.7        K:    4.0      NH4:  2.3
SO4:    68.7      HCO3:  213.1       Cl:     9.4      NO3:    0.2         F:  1.2
Sum Cations:  335.6  Sum Anions:  293.1  Cations/Anions: 1.15   Tot. P:   0.5
Tot. Al:   51.7   Ext. Al:  22.6    Fe:    65.0     Mn:     1.0    SiO2:  2.57

ID: 1E3-024   Name: LITTLE INDIAN POND              State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-15'41"N   Longitude: 69-14'21"W
Elevation:  297   Surface Temp: 11.0  Stratified: MIXED      Site Depth:   1.5
Lake Area:      49 Watershed Area:    477 WA/LA:      9.8 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  1.4   Turbidity:   1.7     Color:   50
Closed pH: 6.98        Equil. pH: 7.27              ANC:  128.3        DOC:  8.71
Closed DIC:  1.32   Equil. DIC:  1.13    Meas. Cond:  27.6   Cal. Cond:  27.6
Ca:  146.1          Mg:    88.6        Na:    33.8        K:    8.8      NH4:  1.6
SO4:    86.5      HCO3:   96.3       Cl:     6.3      NO3:    0.2         F:  1.2
Sum Cations:  278.9  Sum Anions:  190.7  Cations/Anions: 1.46   Tot. P:  16.3
Tot. Al:   80.3   Ext. Al:  14.8    Fe:     6.0     Mn:    23.0    SiO2:  1.18

ID: 1E3-025   Name: SPRING POND                     State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-18'15"N   Longitude: 69-02'45"W
Elevation:  304   Surface Temp:  9.8  Stratified: MIXED      Site Depth:   7.3
Lake Area:       6 Watershed Area:     65 WA/LA:     11.4 Hydro Type: DRAINAGE
Residence Time:  0.54  Secchi Depth:  2.7   Turbidity:   0.6     Color:   20
Closed pH: 7.43        Equil. pH: 7.59              ANC:  241.3        DOC:  5.48
Closed DIC:  2.61   Equil. DIC:  2.56    Meas. Cond:  37.2   Cal. Cond:  38.6
Ca:  263.4          Mg:    68.0        Na:    31.5        K:    6.5      NH4:  1.6
SO4:    86.3      HCO3:  214.1       Cl:     8.3      NO3:    0.2         F:  0.9
Sum Cations:  371.1  Sum Anions:  310.4  Cations/Anions: 1.20   Tot. P:  18.9
Tot. Al:   32.1   Ext. Al:   6.3    Fe:    20.0     Mn:    23.0    SiO2:  0.58

ID: 1E3-027   Name: LITTLE LEADBETTER POND          State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-14'45"N   Longitude: 69-11'45"W
Elevation:  306   Surface Temp: 11.6  Stratified: MIXED      Site Depth:   1.6
Lake Area:      57 Watershed Area:    269 WA/LA:      4.7 Hydro Type: DRAINAGE
Residence Time:  0.26  Secchi Depth:  1.6   Turbidity:   1.2     Color:   15
Closed pH: 7.56        Equil. pH: 7.61              ANC:  249.4        DOC:  8.09
Closed DIC:  2.45   Equil. DIC:  2.56    Meas. Cond:  39.1   Cal. Cond:  39.4
Ca:  249.0          Mg:    93.6        Na:    36.4        K:    8.8      NH4:  1.3
SO4:    97.6      HCO3:  190.5       Cl:     8.1      NO3:    0.3         F:  1.2
Sum Cations:  389.1  Sum Anions:  298.1  Cations/Anions: 1.31   Tot. P:  14.6
Tot. Al:   83.9   Ext. Al:  17.8    Fe:     8.0     Mn:     0.0    SiO2:  0.22
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E3-030   Name: LONG LAKE                          State: ME  Date: 15OCT84
Sample Type: REGULAR             Latitude: 46-06'40"N   Longitude: 68-07'30"W
Elevation:  169   Surface Temp: 14.0  Stratified: MIXED      Site Depth:   1.2
Lake Area:      25 Watershed Area:   1880 WA/LA:    75.2 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:    *    Turbidity:   0.5      Color:   25
Closed pH: 8.36        Equil. pH: 8.46              ANC: 1540.9        DOC:  5.19
Closed DIC: 17.51   Equil. DIC: 17.52    Meas. Cond: 179.7   Cal. Cond: 188.7
Ca: 1501.0          Mg:  176.9        Na:  112.0          K:  28.6      NH4:  1.8
SO4:  122.1       HCO3: 1411.3        Cl:   94.7        NO3:   0.4        F:  1.6
Sum Cations: 1820.3  Sum Anions: 1663.2  Cations/Anions: 1.09   Tot. P:   0.2
Tot. Al:    14.2    Ext. Al:    9.3    Fe:    65.0      Mn:     6.0    SiO2:  2.15

ID: 1E3-031   Name: PLEASANT LAKE                      State: ME  Date: 15OCT84
Sample Type: REGULAR             Latitude: 46-01'30"N   Longitude: 68-10'00"W
Elevation:  163   Surface Temp: 12.8  Stratified: MIXED      Site Depth:  15.8
Lake Area:     726 Watershed Area:   1865 WA/LA:     2.6 Hydro Type: DRAINAGE
Residence Time:  3.86  Secchi Depth:  6.8   Turbidity:   0.2      Color:   15
Closed pH: 7.15        Equil. pH: 7.35              ANC:  121.9        DOC:  1.53
Closed DIC:  1.27   Equil. DIC:  1.47    Meas. Cond:  28.0   Cal. Cond:  28.0
Ca:  144.9          Mg:   39.1        Na:   39.9          K:  13.8      NH4:  1.6
SO4:   88.1       HCO3:  120.9        Cl:   20.9        NO3:   0.0        F:  1.7
Sum Cations:  239.3  Sum Anions:  231.9  Cations/Anions: 1.03   Tot. P:   0.0
Tot. Al:     8.3    Ext. Al:    4.5    Fe:    23.0      Mn:    10.0    SiO2:  0.26

ID: 1E3-033   Name: ROBERTS POND                       State: ME  Date: 17OCT84
Sample Type: REGULAR             Latitude: 46-03'30"N   Longitude: 70-16'05"W
Elevation:  600   Surface Temp:  9.5  Stratified: MIXED      Site Depth:   1.8
Lake Area:       8 Watershed Area:    132 WA/LA:    15.9 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  1.8   Turbidity:   0.5      Color:   50
Closed pH: 7.18        Equil. pH: 7.68              ANC:  319.8        DOC:  8.19
Closed DIC:  3.55   Equil. DIC:  3.38    Meas. Cond:  47.0   Cal. Cond:  46.3
Ca:  316.8          Mg:  100.2        Na:   25.2          K:   9.1      NH4:  2.4
SO4:   77.3       HCO3:  281.7        Cl:   12.1        NO3:   4.2        F:  1.0
Sum Cations:  453.8  Sum Anions:  376.8  Cations/Anions: 1.20   Tot. P:   5.5
Tot. Al:   139.5    Ext. Al:   24.5    Fe:    66.5      Mn:    11.5    SiO2:  3.05

ID: 1E3-035   Name: BURNHAM POND                       State: ME  Date: 17OCT84
Sample Type: REGULAR             Latitude: 45-32'30"N   Longitude: 69-43'00"W
Elevation:  316   Surface Temp: 10.5  Stratified: MIXED      Site Depth:   1.5
Lake Area:     166 Watershed Area:   1088 WA/LA:     6.6 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  1.1   Turbidity:   2.5      Color:   35
Closed pH: 7.04        Equil. pH: 7.98              ANC:  595.6        DOC: 11.94
Closed DIC:  6.29   Equil. DIC:  6.26    Meas. Cond:  75.6   Cal. Cond:  77.7
Ca:  496.3          Mg:  188.0        Na:   75.1          K:   8.1      NH4:  1.4
SO4:   80.3       HCO3:  520.6        Cl:   51.6        NO3:   0.1        F:  1.6
Sum Cations:  768.9  Sum Anions:  655.9  Cations/Anions: 1.17   Tot. P:   5.4
Tot. Al:    95.9    Ext. Al:   21.9    Fe:     6.0      Mn:    15.0    SiO2:  0.57

ID: 1E3-036   Name: BALD MOUNTAIN POND                 State: ME  Date: 19OCT84
Sample Type: REGULAR             Latitude: 45-15'00"N   Longitude: 69-44'00"W
Elevation:  370   Surface Temp: 11.2  Stratified: MIXED      Site Depth:  16.8
Lake Area:     469 Watershed Area:   3515 WA/LA:     7.5 Hydro Type: DRAINAGE
Residence Time:  1.52  Secchi Depth:  3.7   Turbidity:   0.5      Color:   20
Closed pH: 6.52        Equil. pH: 6.63              ANC:   39.6        DOC:  4.53
Closed DIC:  0.49   Equil. DIC:  0.47    Meas. Cond:  16.7   Cal. Cond:  16.8
Ca:   88.5          Mg:   23.6        Na:   29.5          K:   6.3      NH4:  1.1
SO4:   75.1       HCO3:   22.9        Cl:   12.2        NO3:   0.1        F:  2.2
Sum Cations:  149.4  Sum Anions:  112.5  Cations/Anions: 1.33   Tot. P:   2.7
Tot. Al:   100.2    Ext. Al:    6.5    Fe:    10.0      Mn:     9.0    SiO2:  1.31
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E3-038   Name: BRANNS MILL POND                State: ME  Date: 19OCT84
Sample Type: REGULAR            Latitude: 45-06'30"N   Longitude: 69-10'00"W
Elevation:  134   Surface Temp: 10.1  Stratified: MIXED     Site Depth:   3.0
Lake Area:    108 Watershed Area:   3732 WA/LA:    34.4 Hydro Type: RESERVOIR
Residence Time:  0.08  Secchi Depth:  2.2   Turbidity:   1.9     Color:   45
Closed pH: 7.11        Equil. pH: 7.69             ANC:  337.2        DOC:  7.75
Closed DIC:  3.93   Equil. DIC:  3.51    Meas. Cond:  51.8   Cal. Cond:  49.7
Ca:  294.2           Mg:  101.6        Na:   87.7         K:   5.4       NH4:  1.4
SO4:   55.0       HCO3:  288.6        Cl:   59.3        NO3:   0.0         F:  1.2
Sum Cations:  490.2  Sum Anions:  404.8  Cations/Anions: 1.21   Tot. P:  16.1
Tot. Al:  106.0    Ext. Al:   0.0    Fe:  100.0      Mn:     1.0    SiO2:  1.73
```

```
ID: 1E3-039   Name: WEYMOUTH POND                   State: ME  Date: 19OCT84
Sample Type: REGULAR            Latitude: 44-58'15"N   Longitude: 69-19'30"W
Elevation:   91   Surface Temp: 11.7  Stratified: MIXED     Site Depth:   2.4
Lake Area:     43 Watershed Area:    243 WA/LA:     5.6 Hydro Type: DRAINAGE
Residence Time:  0.35  Secchi Depth:  2.4   Turbidity:   0.5     Color:   15
Closed pH: 7.90        Equil. pH: 8.19             ANC:  994.2        DOC:  4.47
Closed DIC: 11.47   Equil. DIC: 10.84    Meas. Cond: 116.0   Cal. Cond: 121.9
Ca:  907.7           Mg:  162.9        Na:   70.3         K:  22.3       NH4:  1.7
SO4:   76.7       HCO3:  911.6        Cl:   86.4        NO3:   2.7         F:  0.4
Sum Cations: 1164.8  Sum Anions: 1085.2  Cations/Anions: 1.07   Tot. P:   7.0
Tot. Al:   31.6    Ext. Al:   1.3    Fe:   12.0      Mn:     7.0    SiO2:  0.63
```

```
ID: 1E3-040   Name: NOKOMIS POND                    State: ME  Date: 19OCT84
Sample Type: REGULAR            Latitude: 44-52'15"N   Longitude: 69-18'00"W
Elevation:   95   Surface Temp: 11.6  Stratified: MIXED     Site Depth:   6.7
Lake Area:     74 Watershed Area:    219 WA/LA:     2.9 Hydro Type: DRAINAGE
Residence Time:  1.97  Secchi Depth:  2.5   Turbidity:   0.6     Color:   20
Closed pH: 7.23        Equil. pH: 7.54             ANC:  236.8        DOC:  4.38
Closed DIC:  2.64   Equil. DIC:  2.53    Meas. Cond:  45.8   Cal. Cond:  45.9
Ca:  216.6           Mg:  123.4        Na:   65.0         K:  10.6       NH4:  1.2
SO4:  123.0       HCO3:  206.2        Cl:   42.3        NO3:   0.0         F:  1.6
Sum Cations:  416.8  Sum Anions:  373.5  Cations/Anions: 1.12   Tot. P:  12.1
Tot. Al:   37.5    Ext. Al:   0.0    Fe:   12.0      Mn:     0.0    SiO2:  0.98
```

```
ID: 1E3-041   Name: ROUND POND                      State: ME  Date: 24OCT84
Sample Type: REGULAR            Latitude: 44-44'20"N   Longitude: 69-13'30"W
Elevation:   82   Surface Temp: 12.0  Stratified: MIXED     Site Depth:   8.5
Lake Area:     51 Watershed Area:   1031 WA/LA:    20.4 Hydro Type: DRAINAGE
Residence Time:  0.37  Secchi Depth:  3.0   Turbidity:   0.7     Color:   15
Closed pH: 7.40        Equil. pH: 7.73             ANC:  355.7        DOC:  4.49
Closed DIC:  3.80   Equil. DIC:  3.74    Meas. Cond:  49.8   Cal. Cond:  51.8
Ca:  288.3           Mg:  120.9        Na:   69.7         K:  10.5       NH4:  0.7
SO4:   83.7       HCO3:  308.3        Cl:   44.3        NO3:   0.2         F:  1.3
Sum Cations:  490.3  Sum Anions:  438.7  Cations/Anions: 1.12   Tot. P:   5.1
Tot. Al:   26.6    Ext. Al:   2.8    Fe:   36.0      Mn:     1.0    SiO2:  1.27
```

```
ID: 1E3-042   Name: SAND POND                       State: ME  Date: 24OCT84
Sample Type: REGULAR            Latitude: 44-34'10"N   Longitude: 70-07'10"W
Elevation:  111   Surface Temp: 12.3  Stratified: MIXED     Site Depth:   5.2
Lake Area:     32 Watershed Area:    129 WA/LA:     4.0 Hydro Type: DRAINAGE
Residence Time:  0.96  Secchi Depth:  2.6   Turbidity:   0.8     Color:    5
Closed pH: 7.16        Equil. pH: 7.44             ANC:  169.9        DOC:  2.71
Closed DIC:  1.94   Equil. DIC:  1.92    Meas. Cond:  34.0   Cal. Cond:  34.4
Ca:  161.3           Mg:   44.3        Na:   75.7         K:  17.7       NH4:  0.6
SO4:   76.6       HCO3:  152.5        Cl:   56.4        NO3:   0.2         F:  1.6
Sum Cations:  299.7  Sum Anions:  287.5  Cations/Anions: 1.04   Tot. P:  12.8
Tot. Al:   17.4    Ext. Al:   1.8    Fe:    0.0      Mn:     3.0    SiO2:  1.13
```

(continued)

```
ID: 1E3-044   Name: MOSHER POND                          State: ME  Date: 24OCT84
Sample Type: REGULAR            Latitude: 44-28'30"N   Longitude: 70-06'30"W
Elevation:   111   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   7.6
Lake Area:      28 Watershed Area:     688 WA/LA:     24.5 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  2.0   Turbidity:   1.1      Color:    43
Closed pH: 7.04       Equil. pH: 7.61           ANC:  280.7          DOC:  5.43
Closed DIC:  3.20   Equil. DIC:  2.87     Meas. Cond:  45.6   Cal. Cond:  48.6
Ca:  262.7          Mg:   61.8        Na:   95.5         K:  19.0       NH4:  0.7
SO4:   85.1        HCO3:  257.1       Cl:   65.4       NO3:   0.3         F:  1.9
Sum Cations:  439.7  Sum Anions:  410.5  Cations/Anions: 1.07    Tot. P:  10.6
Tot. Al:   40.3     Ext. Al:   5.3    Fe:  198.5       Mn:   21.0     SiO2:  6.01

ID: 1E3-045   Name: MCCLURE POND                         State: ME  Date: 23OCT84
Sample Type: REGULAR            Latitude: 44-29'00"N   Longitude: 68-57'50"W
Elevation:    69   Surface Temp: 11.8  Stratified: MIXED      Site Depth:   1.8
Lake Area:      18 Watershed Area:     438 WA/LA:     23.9 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  1.1   Turbidity:   0.8      Color:    90
Closed pH: 6.33       Equil. pH: 7.28           ANC:  154.5          DOC: 11.73
Closed DIC:  2.85   Equil. DIC:  1.30     Meas. Cond:  33.2   Cal. Cond:  35.3
Ca:  141.4          Mg:   67.9        Na:  114.0         K:  11.9       NH4:  2.7
SO4:   45.6        HCO3:  151.0       Cl:   78.9       NO3:   0.4         F:  1.5
Sum Cations:  338.0  Sum Anions:  277.6  Cations/Anions: 1.22    Tot. P:  13.2
Tot. Al:   96.3     Ext. Al:  22.6    Fe:  211.0       Mn:   13.0     SiO2:  1.49

ID: 1E3-046   Name: LITTLE POND                          State: ME  Date: 23OCT84
Sample Type: REGULAR            Latitude: 44-23'15"N   Longitude: 69-11'50"W
Elevation:    62   Surface Temp: 12.6  Stratified: MIXED      Site Depth:   2.7
Lake Area:      17 Watershed Area:      88 WA/LA:      5.2 Hydro Type: DRAINAGE
Residence Time:  0.43  Secchi Depth:  0.9   Turbidity:   0.7      Color:    90
Closed pH: 6.27       Equil. pH: 6.97           ANC:   65.9          DOC:  9.13
Closed DIC:  1.03   Equil. DIC:  0.42     Meas. Cond:  21.1   Cal. Cond:  21.3
Ca:   70.8          Mg:   39.7        Na:   73.6         K:  18.9       NH4:  1.3
SO4:   48.1        HCO3:   46.7       Cl:   47.7       NO3:   0.3         F:  1.6
Sum Cations:  204.8  Sum Anions:  144.4  Cations/Anions: 1.42    Tot. P:  17.2
Tot. Al:   98.3     Ext. Al:   2.8    Fe:  140.0       Mn:   10.0     SiO2:  3.11

ID: 1E3-048   Name: MOODY POND                           State: ME  Date: 23OCT84
Sample Type: REGULAR            Latitude: 44-17'35"N   Longitude: 69-08'45"W
Elevation:   106   Surface Temp: 12.9  Stratified: MIXED      Site Depth:   7.3
Lake Area:      25 Watershed Area:     205 WA/LA:      8.3 Hydro Type: DRAINAGE
Residence Time:  0.75  Secchi Depth:  4.6   Turbidity:   0.5      Color:    10
Closed pH: 6.96       Equil. pH: 7.20           ANC:  118.5          DOC:  2.87
Closed DIC:  1.44   Equil. DIC:  1.25     Meas. Cond:  28.4   Cal. Cond:  31.2
Ca:  108.9          Mg:   44.0        Na:   95.0         K:  10.2       NH4:  0.8
SO4:   75.5        HCO3:  126.7       Cl:   65.9       NO3:   0.1         F:  1.2
Sum Cations:  258.9  Sum Anions:  269.6  Cations/Anions: 0.96    Tot. P:   5.4
Tot. Al:   22.6     Ext. Al:  17.9    Fe:   90.0       Mn:   23.0     SiO2:  1.57

ID: 1E3-050   Name: ALEWIFE POND                         State: ME  Date: 30OCT84
Sample Type: REGULAR            Latitude: 43-26'15"N   Longitude: 70-36'15"W
Elevation:    37   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   3.6
Lake Area:      17 Watershed Area:     363 WA/LA:     21.9 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  1.7   Turbidity:   2.0      Color:    75
Closed pH: 6.53       Equil. pH: 7.39           ANC:  178.8          DOC:  8.44
Closed DIC:  3.17   Equil. DIC:  1.91     Meas. Cond:  48.7   Cal. Cond:  50.7
Ca:  124.6          Mg:   76.3        Na:  238.9         K:  17.2       NH4:  2.3
SO4:   70.3        HCO3:  137.8       Cl:  178.3       NO3:   0.9         F:  5.2
Sum Cations:  459.6  Sum Anions:  392.5  Cations/Anions: 1.17    Tot. P:  11.3
Tot. Al:  216.2     Ext. Al:  17.0    Fe:  382.0       Mn:   11.0     SiO2:  2.06
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E3-052   Name: THREE MILE POND                      State: ME  Date: 23OCT84
Sample Type: REGULAR            Latitude: 44-22'02"N    Longitude: 69-36'16"W
Elevation:   55   Surface Temp: 13.3  Stratified: MIXED      Site Depth:  11.3
Lake Area:     463 Watershed Area:    4652 WA/LA:      10.0 Hydro Type: DRAINAGE
Residence Time:  1.23  Secchi Depth:  2.9   Turbidity:   1.0      Color:   25
Closed pH: 7.25        Equil. pH: 7.52               ANC:  217.2         DOC:  3.93
Closed DIC:  2.33   Equil. DIC:  2.33    Meas. Cond:  46.5   Cal. Cond:  48.8
Ca:  208.9          Mg:    63.2       Na:   126.5        K:  20.4        NH4:  2.2
SO4:    90.3       HCO3:  210.6        Cl:  108.6       NO3:   0.0          F:  2.2
Sum Cations:  421.2  Sum Anions:  411.9  Cations/Anions: 1.02   Tot. P:   8.0
Tot. Al:    49.2    Ext. Al:    3.5     Fe:    67.0      Mn:    8.0    SiO2:  2.31

ID: 1E3-055   Name: TOGUE POND                           State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-56'02"N    Longitude: 68-53'31"W
Elevation:  362   Surface Temp:  9.7  Stratified: MIXED      Site Depth:  22.9
Lake Area:     129 Watershed Area:     922 WA/LA:       7.1 Hydro Type: DRAINAGE
Residence Time:  2.54  Secchi Depth:  5.4   Turbidity:   0.2      Color:   15
Closed pH: 7.41        Equil. pH: 7.69               ANC:  300.5         DOC:  2.92
Closed DIC:  3.33   Equil. DIC:  3.39    Meas. Cond:  41.5   Cal. Cond:  44.2
Ca:  308.1          Mg:    54.7       Na:    36.4        K:   8.7        NH4:  1.2
SO4:    90.3       HCO3:  277.2        Cl:    9.2       NO3:   0.0          F:  1.6
Sum Cations:  409.1  Sum Anions:  379.2  Cations/Anions: 1.08   Tot. P:   0.1
Tot. Al:    28.3    Ext. Al:   15.9     Fe:    17.0      Mn:    0.0    SiO2:  2.65

ID: 1E3-056   Name: SOPER POND                           State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-22'28"N    Longitude: 69-13'47"W
Elevation:  307   Surface Temp: 11.9  Stratified: MIXED      Site Depth:   0.9
Lake Area:      81 Watershed Area:    3631 WA/LA:      44.7 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.0   Turbidity:   0.4      Color:   33
Closed pH: 7.89        Equil. pH: 8.15               ANC:  846.1         DOC:  9.43
Closed DIC:  9.14   Equil. DIC:  8.78    Meas. Cond:  94.7   Cal. Cond:  97.0
Ca:  768.0          Mg:   150.9       Na:    52.1        K:   7.7        NH4:  1.7
SO4:    86.0       HCO3:  710.4        Cl:   13.6       NO3:   0.6          F:  1.3
Sum Cations:  980.4  Sum Anions:  817.3  Cations/Anions: 1.20   Tot. P:   2.9
Tot. Al:    91.8    Ext. Al:   29.9     Fe:    29.5      Mn:    6.0    SiO2:  2.36

ID: 1E3-057   Name: SECOND CURRIER POND                  State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-24'55"N    Longitude: 69-06'31"W
Elevation:  386   Surface Temp: 10.7  Stratified: MIXED      Site Depth:   2.7
Lake Area:      12 Watershed Area:      88 WA/LA:       7.4 Hydro Type: DRAINAGE
Residence Time:  0.29  Secchi Depth:  1.4   Turbidity:   1.2      Color:   45
Closed pH: 7.19        Equil. pH: 7.64               ANC:  291.2         DOC:  8.17
Closed DIC:  3.18   Equil. DIC:  2.88    Meas. Cond:  39.6   Cal. Cond:  41.6
Ca:  323.6          Mg:    59.6       Na:    28.5        K:   7.3        NH4:  1.7
SO4:    69.5       HCO3:  241.6        Cl:    8.2       NO3:   0.4          F:  1.1
Sum Cations:  420.9  Sum Anions:  321.3  Cations/Anions: 1.31   Tot. P:   2.9
Tot. Al:    62.0    Ext. Al:    8.6     Fe:    31.0      Mn:   16.0    SiO2:  5.63

ID: 1E3-060   Name: MILLINOCKET LAKE                     State: ME  Date: 15OCT84
Sample Type: REGULAR            Latitude: 46-18'10"N    Longitude: 68-52'30"W
Elevation:  230   Surface Temp: 11.3  Stratified: MIXED      Site Depth:  10.7
Lake Area:     874 Watershed Area:   17521 WA/LA:      20.0 Hydro Type: DRAINAGE
Residence Time:  0.46  Secchi Depth:  2.1   Turbidity:   0.5      Color:   45
Closed pH: 7.42        Equil. pH: 7.64               ANC:  264.3         DOC:  6.72
Closed DIC:  2.59   Equil. DIC:  2.86    Meas. Cond:  40.7   Cal. Cond:  41.5
Ca:  277.5          Mg:    88.4       Na:    31.1        K:   5.4        NH4:  2.3
SO4:    87.1       HCO3:  232.4        Cl:    9.3       NO3:   1.0          F:  1.1
Sum Cations:  404.9  Sum Anions:  331.6  Cations/Anions: 1.22   Tot. P:   6.2
Tot. Al:    26.9    Ext. Al:    8.9     Fe:    89.0      Mn:    4.0    SiO2:  1.90
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E3-062   Name: CAIN POND                              State: ME  Date: 23OCT84
Sample Type: REGULAR               Latitude: 44-29'32"N    Longitude: 68-58'03"W
Elevation:   69   Surface Temp: 12.6  Stratified: MIXED       Site Depth:    3.9
Lake Area:      15 Watershed Area:    277 WA/LA:     18.2 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  2.9   Turbidity:   0.7      Color:    10
Closed pH: 6.56        Equil. pH: 7.39               ANC:  166.9         DOC:  2.89
Closed DIC:  2.71   Equil. DIC:  1.80    Meas. Cond:  37.5   Cal. Cond:  41.0
Ca:  156.6           Mg:   63.1        Na:  119.0          K:  19.0       NH4:  0.9
SO4:   83.1       HCO3:  160.7       Cl:   89.8        NO3:   0.4          F:  2.4
Sum Cations:  358.8  Sum Anions:  336.4  Cations/Anions: 1.07   Tot. P:    5.7
Tot. Al:   24.4    Ext. Al:    3.8    Fe:   31.0      Mn:    16.0    SiO2:  1.02

ID: 1E3-065   Name: CLISH POND                             State: ME  Date: 17OCT84
Sample Type: REGULAR               Latitude: 46-01'09"N    Longitude: 70-15'30"W
Elevation:  552   Surface Temp:  8.7  Stratified: MIXED       Site Depth:    4.9
Lake Area:       7 Watershed Area:     49 WA/LA:      7.2 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  3.0   Turbidity:   0.8      Color:    35
Closed pH: 7.34        Equil. pH: 7.58               ANC:  259.7         DOC:  5.23
Closed DIC:  2.97   Equil. DIC:  2.87    Meas. Cond:  37.7   Cal. Cond:  39.4
Ca:  255.4           Mg:   79.4        Na:   36.1          K:   5.9       NH4:  0.2
SO4:   86.4       HCO3:  229.0       Cl:    6.9        NO3:   0.1          F:  1.4
Sum Cations:  377.0  Sum Anions:  324.2  Cations/Anions: 1.16   Tot. P:    1.5
Tot. Al:   70.3    Ext. Al:    9.5    Fe:   25.0      Mn:    13.0    SiO2:  0.22

ID: 1E3-067   Name: TOM YOUNG POND                         State: ME  Date: 19OCT84
Sample Type: REGULAR               Latitude: 45-45'44"N    Longitude: 69-35'28"W
Elevation:  332   Surface Temp:  8.6  Stratified: MIXED       Site Depth:    1.2
Lake Area:       9 Watershed Area:     83 WA/LA:      9.3 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  1.2   Turbidity:   0.8      Color:    43
Closed pH: 6.98        Equil. pH: 7.43               ANC:  193.5         DOC: 10.83
Closed DIC:  2.14   Equil. DIC:  1.88    Meas. Cond:  39.5   Cal. Cond:  40.1
Ca:  252.4           Mg:   58.3        Na:   57.6          K:  12.7       NH4:  6.5
SO4:  123.9       HCO3:  153.4       Cl:   10.2        NO3:   1.1          F:  1.9
Sum Cations:  387.5  Sum Anions:  290.8  Cations/Anions: 1.33   Tot. P:    5.1
Tot. Al:   87.8    Ext. Al:    9.7    Fe:   49.0      Mn:     6.0    SiO2:  1.13

ID: 1E3-068   Name: SPAULDING LAKE                         State: ME  Date: 15OCT84
Sample Type: REGULAR               Latitude: 46-06'24"N    Longitude: 68-06'15"W
Elevation:  174   Surface Temp: 11.8  Stratified: MIXED       Site Depth:   10.7
Lake Area:      49 Watershed Area:   1448 WA/LA:     29.4 Hydro Type: DRAINAGE
Residence Time:  0.32  Secchi Depth:  3.0   Turbidity:   0.7      Color:    20
Closed pH: 8.16        Equil. pH: 8.39               ANC: 1301.8         DOC:  3.48
Closed DIC: 14.43   Equil. DIC: 14.55    Meas. Cond: 150.0   Cal. Cond: 155.3
Ca: 1244.5           Mg:  126.7        Na:   93.9          K:  27.6       NH4:  1.6
SO4:  107.9       HCO3: 1185.4       Cl:   71.1        NO3:   0.0          F:  1.5
Sum Cations: 1494.3  Sum Anions: 1378.3  Cations/Anions: 1.08   Tot. P:    4.6
Tot. Al:    9.3    Ext. Al:    4.8    Fe:   45.0      Mn:     5.0    SiO2:  2.21

ID: 1E3-069   Name: LONGFELLOW LAKE                        State: ME  Date: 21OCT84
Sample Type: REGULAR               Latitude: 45-45'58"N    Longitude: 67-51'07"W
Elevation:  142   Surface Temp: 11.4  Stratified: MIXED       Site Depth:   12.2
Lake Area:     194 Watershed Area:    883 WA/LA:      4.6 Hydro Type: DRAINAGE
Residence Time:  2.19  Secchi Depth:  8.4   Turbidity:   0.4      Color:     5
Closed pH: 7.15        Equil. pH: 7.38               ANC:  154.3         DOC:  2.96
Closed DIC:  1.88   Equil. DIC:  1.69    Meas. Cond:  30.2   Cal. Cond:  32.3
Ca:  160.9           Mg:   48.7        Na:   65.2          K:   9.1       NH4:  0.7
SO4:   79.3       HCO3:  145.1       Cl:   41.8        NO3:   0.4          F:  1.2
Sum Cations:  284.7  Sum Anions:  268.1  Cations/Anions: 1.06   Tot. P:    5.6
Tot. Al:   36.8    Ext. Al:    0.0    Fe:    1.5      Mn:     3.0    SiO2:  1.28
```

(continued)

TABLE 3-1 (continued)

```
ID: 1E3-070   Name: MCLEAN LAKE                         State: ME  Date: 15OCT84
Sample Type: REGULAR            Latitude: 47-06'25"N    Longitude: 68-52'15"W
Elevation:  314   Surface Temp: 10.2  Stratified: MIXED      Site Depth:   2.4
Lake Area:      12 Watershed Area:     324 WA/LA:     26.6 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  2.4   Turbidity:   0.2      Color:   10
Closed pH: 7.93          Equil. pH: 8.35              ANC: 1282.4        DOC:  2.72
Closed DIC: 14.69   Equil. DIC: 14.57    Meas. Cond: 137.0   Cal. Cond: 142.6
Ca: 1177.1           Mg:  151.4        Na:    52.8        K:    5.9       NH4:   3.7
SO4:    88.9       HCO3: 1166.0       Cl:    15.4       NO3:    2.3          F:   1.0
Sum Cations: 1390.8  Sum Anions: 1285.8  Cations/Anions: 1.08   Tot. P:   0.0
Tot. Al:    10.2     Ext. Al:    6.7     Fe:    34.0      Mn:     0.0     SiO2:  4.65
```

```
ID: 1E3-071   Name: CARRY POND                          State: ME  Date: 15OCT84
Sample Type: REGULAR            Latitude: 46-20'43"N    Longitude: 68-35'45"W
Elevation:  269   Surface Temp: 13.1  Stratified: MIXED      Site Depth:   1.5
Lake Area:       7 Watershed Area:     106 WA/LA:     15.1 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  1.0   Turbidity:   0.9      Color:   55
Closed pH: 7.59          Equil. pH: 7.83              ANC:  418.0        DOC:  9.73
Closed DIC:  4.23   Equil. DIC:  4.46    Meas. Cond:  51.1   Cal. Cond:  53.6
Ca:  373.8           Mg:  125.9        Na:    39.6        K:    5.5       NH4:   2.2
SO4:    62.9       HCO3:  370.7       Cl:     6.3       NO3:    0.0          F:   1.1
Sum Cations:  546.9  Sum Anions:  442.6  Cations/Anions: 1.24   Tot. P:   2.0
Tot. Al:    43.8     Ext. Al:   20.9     Fe:    34.0      Mn:     6.0     SiO2:  0.70
```

```
ID: 1E3-072   Name: MORRELL POND                        State: ME  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-12'54"N    Longitude: 68-48'13"W
Elevation:  235   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   0.9
Lake Area:      13 Watershed Area:     236 WA/LA:     18.1 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.9   Turbidity:   1.1      Color:  100
Closed pH: 6.79          Equil. pH: 7.31              ANC:  169.4        DOC: 16.59
Closed DIC:  1.58   Equil. DIC:  1.30    Meas. Cond:  28.5   Cal. Cond:  29.0
Ca:  192.4           Mg:   77.7        Na:    47.4        K:   14.3       NH4:   2.1
SO4:    50.1       HCO3:  108.0       Cl:    12.0       NO3:    0.0          F:   1.8
Sum Cations:  334.0  Sum Anions:  172.0  Cations/Anions: 1.94   Tot. P:   4.1
Tot. Al:    96.6     Ext. Al:   24.3     Fe:    44.0      Mn:     2.0     SiO2:  1.84
```

```
ID: 2A1-001   Name: YODELER LAKE                        State: MN  Date: 30OCT84
Sample Type: REGULAR            Latitude: 48-14'20"N    Longitude: 92-11'45"W
Elevation:  399   Surface Temp:  6.1  Stratified: MIXED      Site Depth:  12.2
Lake Area:      17 Watershed Area:     246 WA/LA:     14.4 Hydro Type: DRAINAGE
Residence Time:  2.34  Secchi Depth:  1.9   Turbidity:   0.7      Color:   68
Closed pH: 6.05          Equil. pH: 6.82              ANC:   78.0        DOC: 10.30
Closed DIC:  1.83   Equil. DIC:  0.63    Meas. Cond:  22.2   Cal. Cond:  21.9
Ca:   90.3           Mg:   68.3        Na:    40.5        K:    8.2       NH4:   1.7
SO4:    81.4       HCO3:   50.5       Cl:    10.2       NO3:    3.1          F:   2.3
Sum Cations:  209.6  Sum Anions:  147.5  Cations/Anions: 1.42   Tot. P:  17.0
Tot. Al:   180.0     Ext. Al:   68.0     Fe:   270.0      Mn:    40.0     SiO2:  7.39
```

```
ID: 2A1-002   Name: LEGEND LAKE                         State: MN  Date: 18OCT84
Sample Type: REGULAR            Latitude: 48-09'10"N    Longitude: 92-03'15"W
Elevation:  393   Surface Temp: 10.0  Stratified: MIXED      Site Depth:   1.5
Lake Area:      18 Watershed Area:     293 WA/LA:     16.5 Hydro Type: DRAINAGE
Residence Time:  0.26  Secchi Depth:  0.7   Turbidity:   1.4      Color:  130
Closed pH: 6.98          Equil. pH: 7.69              ANC:  235.0        DOC: 11.20
Closed DIC:  2.48   Equil. DIC:  2.02    Meas. Cond:  30.3   Cal. Cond:  28.0
Ca:  155.2           Mg:  112.7        Na:    40.9        K:   16.1       NH4:   5.0
SO4:    15.6       HCO3:  162.4       Cl:     6.8       NO3:    1.2          F:   2.2
Sum Cations:  330.0  Sum Anions:  188.3  Cations/Anions: 1.75   Tot. P:  17.0
Tot. Al:   112.0     Ext. Al:   18.0     Fe:   200.0      Mn:     0.0     SiO2:  3.09
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A1-003   Name: LOUIS LAKE                         State: MN  Date: 17OCT84
Sample Type: REGULAR              Latitude: 48-02'38"N   Longitude: 91-49'07"W
Elevation:  439   Surface Temp: 11.6  Stratified: STRONG    Site Depth:  16.5
Lake Area:       8 Watershed Area:      36 WA/LA:      4.3 Hydro Type: DRAINAGE
Residence Time:  6.32  Secchi Depth:  3.6   Turbidity:   0.4      Color:   17
Closed pH: 6.90        Equil. pH: 7.43               ANC:  111.0         DOC:  5.50
Closed DIC:  1.53   Equil. DIC:  1.27    Meas. Cond:  20.6   Cal. Cond:  20.1
Ca:   87.8          Mg:   60.9        Na:    29.6          K:  11.0        NH4:  0.0
SO4:    59.1       HCO3:   86.5       Cl:     7.3        NO3:   0.7          F:  1.8
Sum Cations:  189.4  Sum Anions:  155.5  Cations/Anions: 1.22   Tot. P:  22.0
Tot. Al:   18.0    Ext. Al:    4.0    Fe:     0.0      Mn:    0.0    SiO2:  1.19

ID: 2A1-004   Name: SLETTEN LAKE                       State: MN  Date: 30OCT84
Sample Type: REGULAR              Latitude: 47-59'40"N   Longitude: 91-53'00"W
Elevation:  454   Surface Temp:  6.0  Stratified: MIXED     Site Depth:  14.3
Lake Area:       9 Watershed Area:      39 WA/LA:      4.3 Hydro Type: DRAINAGE
Residence Time:  5.47  Secchi Depth:  2.4   Turbidity:   0.6      Color:   36
Closed pH: 6.39        Equil. pH: 7.46               ANC:  101.0         DOC:  6.20
Closed DIC:  2.41   Equil. DIC:  1.46    Meas. Cond:  19.2   Cal. Cond:  18.7
Ca:   82.3          Mg:   54.3        Na:    29.6          K:  12.0        NH4:  7.8
SO4:    37.1       HCO3:   91.7       Cl:     8.2        NO3:   0.5          F:  2.5
Sum Cations:  186.3  Sum Anions:  140.0  Cations/Anions: 1.33   Tot. P:   6.0
Tot. Al:   41.0    Ext. Al:    8.0    Fe:   230.0      Mn:   40.0    SiO2:  2.28

ID: 2A1-005   Name: HAUNTED LAKE                       State: MN  Date: 18OCT84
Sample Type: REGULAR              Latitude: 48-18'45"N   Longitude: 92-11'15"W
Elevation:  411   Surface Temp: 10.3  Stratified: MIXED     Site Depth:   6.1
Lake Area:       7 Watershed Area:      52 WA/LA:      7.0 Hydro Type: RESERVOIR
Residence Time:  1.91  Secchi Depth:  2.2   Turbidity:   1.0      Color:   34
Closed pH: 6.40        Equil. pH: 7.20               ANC:   60.0         DOC:  7.90
Closed DIC:  0.96   Equil. DIC:  0.51    Meas. Cond:  16.8   Cal. Cond:  16.2
Ca:   74.4          Mg:   44.4        Na:    27.8          K:   6.9        NH4:  2.8
SO4:    55.8       HCO3:   32.7       Cl:    14.1        NO3:   0.0          F:  2.1
Sum Cations:  156.7  Sum Anions:  104.7  Cations/Anions: 1.50   Tot. P:   1.0
Tot. Al:   44.0    Ext. Al:    7.0    Fe:    90.0      Mn:   10.0    SiO2:  0.18

ID: 2A1-006   Name: BEARTRACK LAKE                     State: MN  Date: 18OCT84
Sample Type: REGULAR              Latitude: 48-18'07"N   Longitude: 92-12'00"W
Elevation:  399   Surface Temp: 11.4  Stratified: WEAK      Site Depth:  16.5
Lake Area:      64 Watershed Area:     192 WA/LA:      3.0 Hydro Type: DRAINAGE
Residence Time:  7.87  Secchi Depth:  5.0   Turbidity:   0.4      Color:    7
Closed pH: 6.87        Equil. pH: 7.24               ANC:   96.0         DOC:  4.30
Closed DIC:  1.42   Equil. DIC:  1.04    Meas. Cond:  20.6   Cal. Cond:  20.5
Ca:   90.3          Mg:   52.6        Na:    30.4          K:   8.2        NH4:  0.0
SO4:    71.0       HCO3:   81.1       Cl:     9.6        NO3:   0.0          F:  2.2
Sum Cations:  181.7  Sum Anions:  163.9  Cations/Anions: 1.11   Tot. P:   0.0
Tot. Al:   16.0    Ext. Al:    2.0    Fe:     0.0      Mn:    0.0    SiO2:  0.02

ID: 2A1-008   Name: RUBY LAKE                          State: MN  Date: 30OCT84
Sample Type: REGULAR              Latitude: 48-13'45"N   Longitude: 92-10'20"W
Elevation:  402   Surface Temp:  6.9  Stratified: MIXED     Site Depth:  16.5
Lake Area:      28 Watershed Area:     218 WA/LA:      7.9 Hydro Type: DRAINAGE
Residence Time:  4.78  Secchi Depth:  6.0   Turbidity:   0.3      Color:   23
Closed pH: 6.72        Equil. pH: 7.39               ANC:  140.0         DOC:  4.50
Closed DIC:  2.06   Equil. DIC:  1.51    Meas. Cond:  26.0   Cal. Cond:  26.5
Ca:  119.8          Mg:   66.6        Na:    43.1          K:  11.0        NH4:  0.6
SO4:    83.9       HCO3:  115.0       Cl:     9.0        NO3:   1.3          F:  2.4
Sum Cations:  241.2  Sum Anions:  211.7  Cations/Anions: 1.14   Tot. P:   7.0
Tot. Al:   16.0    Ext. Al:    3.0    Fe:    30.0      Mn:   30.0    SiO2:  4.38
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A1-009   Name: POSSE LAKE                           State: MN  Date: 18OCT84
Sample Type: REGULAR             Latitude: 48-15'00"N    Longitude: 92-09'45"W
Elevation:  390   Surface Temp: 10.5  Stratified: MIXED      Site Depth:   2.7
Lake Area:       5 Watershed Area:     158 WA/LA:     32.9 Hydro Type: DRAINAGE
Residence Time:  0.26  Secchi Depth:  2.3   Turbidity:   0.7       Color:   27
Closed pH: 6.60       Equil. pH: 7.24               ANC:  101.0         DOC:  7.50
Closed DIC:  1.61   Equil. DIC:  0.99    Meas. Cond:  22.8   Cal. Cond:  21.7
Ca:   85.8          Mg:    68.3        Na:    38.3         K:  13.6       NH4:  2.8
SO4:   69.5       HCO3:    75.4       Cl:    9.3         NO3:   0.5          F:  1.9
Sum Cations:  208.9  Sum Anions:   156.7  Cations/Anions: 1.33   Tot. P:   9.0
Tot. Al:   42.0    Ext. Al:   5.0    Fe:   30.0      Mn:    0.0    SiO2:  0.61


ID: 2A1-010   Name: NIBIN LAKE                           State: MN  Date: 18OCT84
Sample Type: REGULAR             Latitude: 48-10'45"N    Longitude: 91-59'00"W
Elevation:  394   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   2.1
Lake Area:      15 Watershed Area:     124 WA/LA:      8.1 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  2.1   Turbidity:   0.9       Color:   18
Closed pH: 6.98       Equil. pH: 7.48               ANC:  130.0         DOC: 17.60
Closed DIC:  1.51   Equil. DIC:  1.30    Meas. Cond:  24.1   Cal. Cond:  22.9
Ca:  102.3          Mg:    62.5        Na:    43.9         K:   7.9       NH4:  2.2
SO4:   69.1       HCO3:    90.1       Cl:   10.7         NO3:   0.2          F:  2.7
Sum Cations:  219.0  Sum Anions:   173.0  Cations/Anions: 1.27   Tot. P:   9.0
Tot. Al:   29.0    Ext. Al:   3.0    Fe:   20.0      Mn:    0.0    SiO2:  0.64


ID: 2A1-011   Name: BIG LAKE                             State: MN  Date: 30OCT84
Sample Type: REGULAR             Latitude: 48-05'00"N    Longitude: 92-00'15"W
Elevation;  430   Surface Temp:  5.2  Stratified: MIXED      Site Depth:   4.5
Lake Area:     760 Watershed Area:    2709 WA/LA:      3.6 Hydro Type: DRAINAGE
Residence Time:  1.90  Secchi Depth:  2.7   Turbidity:   0.8       Color:   36
Closed pH: 6.81       Equil. pH: 7.41               ANC:  105.0         DOC:  7.70
Closed DIC:  1.23   Equil. DIC:  0.97    Meas. Cond:  23.1   Cal. Cond:  21.6
Ca:  108.8          Mg:    59.2        Na:    37.8         K:  11.5       NH4:  0.6
SO4:   60.4       HCO3:    74.0       Cl:   10.2         NO3:   1.2          F:  3.3
Sum Cations:  218.1  Sum Anions:   149.1  Cations/Anions: 1.46   Tot. P:  10.0
Tot. Al:   42.0    Ext. Al:   5.0    Fe:   40.0      Mn:    0.0    SiO2:  2.18


ID: 2A1-012   Name: FAIRY LAKE                           State: MN  Date: 17OCT84
Sample Type: REGULAR             Latitude: 48-06'15"N    Longitude: 91-49'50"W
Elevation:  412   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   4.0
Lake Area:      42 Watershed Area:     451 WA/LA:     10.8 Hydro Type: DRAINAGE
Residence Time:  0.92  Secchi Depth:  0.9   Turbidity:   2.1       Color:   97
Closed pH: 6.50       Equil. pH: 5.62               ANC:   96.0         DOC: 13.90
Closed DIC:  0.97   Equil. DIC:  0.57    Meas. Cond:  22.0   Cal. Cond:  20.0
Ca:  101.8          Mg:    75.7        Na:    28.7         K:  10.7       NH4:  0.0
SO4:   62.5       HCO3:    37.6       Cl:   10.4         NO3:   0.0          F:  2.8
Sum Cations:  217.3  Sum Anions:   113.3  Cations/Anions: 1.92   Tot. P:  12.0
Tot. Al:  189.0    Ext. Al:  44.0    Fe:  250.0      Mn:    0.0    SiO2:  2.32


ID: 2A1-013   Name: SERENADE LAKE                        State: MN  Date: 17OCT84
Sample Type: REGULAR             Latitude: 48-03'15"N    Longitude: 92-09'00"W
Elevation:  427   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   1.2
Lake Area:      22 Watershed Area:     228 WA/LA:     10.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.2   Turbidity:   1.3       Color:   64
Closed pH: 6.25       Equil. pH: 6.60               ANC:   49.0         DOC: 11.80
Closed DIC:  0.54   Equil. DIC:  0.32    Meas. Cond:  16.4   Cal. Cond:  15.4
Ca:   56.9          Mg:    40.3        Na:    32.2         K:   6.9       NH4:  7.8
SO4:   61.4       HCO3:    18.2       Cl:   11.6         NO3:   2.5          F:  2.5
Sum Cations:  144.9  Sum Anions:    96.1  Cations/Anions: 1.51   Tot. P:   9.0
Tot. Al:  136.0    Ext. Al:  48.0    Fe:   60.0      Mn:   10.0    SiO2:  0.11
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A1-014   Name: AGASSA LAKE                         State: MN  Date: 18OCT84
Sample Type: REGULAR            Latitude: 48-03'15"N    Longitude: 91-57'00"W
Elevation:  444   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   2.4
Lake Area:      29 Watershed Area:     256 WA/LA:     8.8 Hydro Type: DRAINAGE
Residence Time:  0.63  Secchi Depth:  0.9  Turbidity:   1.4     Color:  130
Closed pH: 5.91       Equil. pH: 6.12             ANC:   45.0        DOC:  8.20
Closed DIC:  0.50   Equil. DIC:  0.18    Meas. Cond:  16.6   Cal. Cond:  15.4
Ca:   63.4          Mg:    51.0        Na:   29.6        K:   9.2      NH4:  0.0
SO4:   62.0       HCO3:     9.5      Cl:    8.7       NO3:   1.0          F:  2.4
Sum Cations:  154.5  Sum Anions:    83.7  Cations/Anions: 1.85   Tot. P:  13.0
Tot. Al:  204.0    Ext. Al:  63.0     Fe:  370.0      Mn:    10.0    SiO2:  1.07


ID: 2A1-015   Name: HOPKINS LAKE                        State: MN  Date: 30OCT84
Sample Type: REGULAR            Latitude: 48-04'07"N    Longitude: 91-53'00"W
Elevation:  451   Surface Temp:  4.1  Stratified: MIXED      Site Depth:   1.5
Lake Area:       9 Watershed Area:      73 WA/LA:     7.8 Hydro Type: DRAINAGE
Residence Time:  0.42  Secchi Depth:  1.3  Turbidity:   0.9     Color:   70
Closed pH: 6.26       Equil. pH: 7.34             ANC:   50.0        DOC:  9.00
Closed DIC:  0.57   Equil. DIC:  0.39    Meas. Cond:  16.9   Cal. Cond:  13.8
Ca:   65.9          Mg:    51.0        Na:   29.6        K:   6.6      NH4:  0.6
SO4:   43.7       HCO3:    16.7      Cl:    5.9       NO3:   0.7          F:  2.8
Sum Cations:  154.5  Sum Anions:    69.9  Cations/Anions: 2.21   Tot. P:  11.0
Tot. Al:  143.0    Ext. Al:  40.0     Fe:  170.0      Mn:     0.0    SiO2:  1.82


ID: 2A1-016   Name: NISWI LAKE                          State: MN  Date: 17OCT84
Sample Type: REGULAR            Latitude: 48-01'10"N    Longitude: 92-08'00"W
Elevation:  442   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   1.8
Lake Area:      43 Watershed Area:     445 WA/LA:    10.4 Hydro Type: DRAINAGE
Residence Time:  0.42  Secchi Depth:  0.4  Turbidity:   5.0     Color:  160
Closed pH: 6.21       Equil. pH: 6.62             ANC:   52.0        DOC: 10.50
Closed DIC:  0.49   Equil. DIC:  0.28    Meas. Cond:  17.8   Cal. Cond:  16.2
Ca:   69.9          Mg:    46.1        Na:   34.8        K:   8.9      NH4:  0.0
SO4:   64.3       HCO3:    16.7      Cl:    9.3       NO3:   2.2          F:  3.2
Sum Cations:  160.5  Sum Anions:    95.7  Cations/Anions: 1.68   Tot. P:  38.0
Tot. Al:  315.0    Ext. Al:  64.0     Fe:  250.0      Mn:     0.0    SiO2:  1.82


ID: 2A1-017   Name: MEDLEY LAKE                         State: MN  Date: 17OCT84
Sample Type: REGULAR            Latitude: 48-01'15"N    Longitude: 92-02'30"W
Elevation:  442   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   2.1
Lake Area:       9 Watershed Area:     104 WA/LA:    11.7 Hydro Type: DRAINAGE
Residence Time:  0.45  Secchi Depth:  0.3  Turbidity:   0.6     Color:  235
Closed pH: 5.57       Equil. pH: 5.72             ANC:   50.0        DOC: 21.10
Closed DIC:  0.58   Equil. DIC:  0.17    Meas. Cond:  16.4   Cal. Cond:  12.8
Ca:   72.9          Mg:    46.1        Na:   35.7        K:   5.6      NH4:  1.7
SO4:   21.9       HCO3:     5.5      Cl:    6.5       NO3:   1.4          F:  4.0
Sum Cations:  164.6  Sum Anions:    39.3  Cations/Anions: 4.19   Tot. P:   9.0
Tot. Al:  242.0    Ext. Al: 126.0     Fe:  710.0      Mn:    30.0    SiO2:  3.55


ID: 2A1-018   Name: BUCK LAKE                           State: MN  Date: 17OCT84
Sample Type: REGULAR            Latitude: 47-58'00"N    Longitude: 92-11'53"W
Elevation:  433   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   5.8
Lake Area:      81 Watershed Area:     948 WA/LA:    11.7 Hydro Type: DRAINAGE
Residence Time:  1.26  Secchi Depth:  1.4  Turbidity:   1.6     Color:   47
Closed pH: 6.69       Equil. pH: 7.18             ANC:  114.0        DOC:  9.40
Closed DIC:  1.42   Equil. DIC:  1.02    Meas. Cond:  24.4   Cal. Cond:  24.8
Ca:  114.3          Mg:    67.5        Na:   45.2        K:  11.0      NH4:  0.0
SO4:   75.2       HCO3:    74.4      Cl:   22.0       NO3:   0.9          F:  3.5
Sum Cations:  238.2  Sum Anions:   176.0  Cations/Anions: 1.35   Tot. P:   1.0
Tot. Al:   72.0    Ext. Al:  12.0     Fe:  160.0      Mn:     0.0    SiO2:  3.35
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A1-019   Name: HASSEL LAKE                         State: MN  Date: 16OCT84
Sample Type: REGULAR            Latitude: 47-56'30"N    Longitude: 92-06'00"W
Elevation:  460   Surface Temp: 11.9  Stratified: MIXED      Site Depth:   0.9
Lake Area:      28 Watershed Area:     127 WA/LA:      4.6 Hydro Type: DRAINAGE
Residence Time:  0.33  Secchi Depth:  0.9   Turbidity:   1.2      Color:   52
Closed pH: 6.36        Equil. pH: 6.75                ANC:   60.0        DOC: 10.10
Closed DIC:  0.74   Equil. DIC:  0.46    Meas. Cond:  17.1   Cal. Cond:  15.0
Ca:    65.9          Mg:    48.5       Na:    33.5        K:   8.2      NH4:  0.0
SO4:    54.3       HCO3:    24.2       Cl:     5.1      NO3:   0.3        F:  4.6
Sum Cations:  156.6  Sum Anions:    88.5  Cations/Anions: 1.77   Tot. P:  11.0
Tot. Al:  107.0    Ext. Al:  28.0    Fe:  260.0     Mn:     0.0    SiO2:  0.12

ID: 2A1-020   Name: GERALDINE LAKE                      State: MN  Date: 16OCT84
Sample Type: REGULAR            Latitude: 47-57'50"N    Longitude: 92-00'45"W
Elevation:  436   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   3.9
Lake Area:       16 Watershed Area:     186 WA/LA:     11.5 Hydro Type: DRAINAGE
Residence Time:  0.85  Secchi Depth:  1.3   Turbidity:   1.2      Color:   65
Closed pH: 6.38        Equil. pH: 6.94                ANC:   75.0        DOC: 11.10
Closed DIC:  1.10   Equil. DIC:  0.58    Meas. Cond:  20.8   Cal. Cond:  18.2
Ca:   78.8           Mg:    60.9       Na:    40.0        K:  12.8      NH4:  0.6
SO4:   61.2        HCO3:    36.8       Cl:     4.8      NO3:   1.0        F:  2.8
Sum Cations:  193.5  Sum Anions:   106.6  Cations/Anions: 1.81   Tot. P:  10.0
Tot. Al:  164.0    Ext. Al:  46.0    Fe:  360.0     Mn:    10.0    SiO2:  1.15

ID: 2A1-022   Name: LOFT LAKE                           State: MN  Date: 01NOV84
Sample Type: REGULAR            Latitude: 48-00'45"N    Longitude: 90-04'05"W
Elevation:  567   Surface Temp:  4.2  Stratified: MIXED      Site Depth:   1.2
Lake Area:        6 Watershed Area:      78 WA/LA:     13.2 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  1.0   Turbidity:   2.2      Color:   64
Closed pH: 6.50        Equil. pH: 7.43                ANC:  114.0        DOC:  7.40
Closed DIC:  2.74   Equil. DIC:  1.52    Meas. Cond:  28.5   Cal. Cond:  29.4
Ca:  118.8           Mg:    97.1       Na:    32.2        K:  11.5      NH4:  6.7
SO4:   88.7        HCO3:   129.3       Cl:    10.2      NO3:   6.4        F:  1.8
Sum Cations:  266.4  Sum Anions:   236.5  Cations/Anions: 1.13   Tot. P:  17.0
Tot. Al:  100.0    Ext. Al:  19.0    Fe:  350.0     Mn:    30.0    SiO2:  4.99

ID: 2A1-023   Name: CHESTER LAKE                        State: MN  Date: 01NOV84
Sample Type: REG/SPC/LTM/       Latitude: 47-59'03"N    Longitude: 90-05'00"W
Elevation:  572   Surface Temp:  4.1  Stratified: MIXED      Site Depth:   9.7
Lake Area:       20 Watershed Area:      73 WA/LA:      3.7 Hydro Type: DRAINAGE
Residence Time:  2.99  Secchi Depth:  3.2   Turbidity:   0.7      Color:   24
Closed pH: 6.81        Equil. pH: 7.27                ANC:  107.0        DOC:  5.50
Closed DIC:  1.40   Equil. DIC:  1.05    Meas. Cond:  22.9   Cal. Cond:  23.3
Ca:  110.8           Mg:    63.3       Na:    28.7        K:   7.4      NH4:  2.8
SO4:   82.2        HCO3:    80.8       Cl:     7.1      NO3:   2.3        F:  4.7
Sum Cations:  213.2  Sum Anions:   177.1  Cations/Anions: 1.20   Tot. P:  12.0
Tot. Al:   32.0    Ext. Al:   4.0    Fe:   10.0     Mn:     0.0    SiO2:  2.33

ID: 2A1-024   Name: MAGIC LAKE                          State: MN  Date: 24OCT84
Sample Type: REGULAR            Latitude: 47-53'20"N    Longitude: 90-57'15"W
Elevation:  547   Surface Temp:  3.5  Stratified: MIXED      Site Depth:   0.9
Lake Area:        7 Watershed Area:     614 WA/LA:     94.5 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  0.9   Turbidity:   2.7      Color:   87
Closed pH: 6.75        Equil. pH: 7.49                ANC:  187.0        DOC: 10.90
Closed DIC:  2.35   Equil. DIC:  1.77    Meas. Cond:  32.1   Cal. Cond:  31.1
Ca:  112.3           Mg:   169.5       Na:    41.3        K:   9.3      NH4:  0.6
SO4:   66.2        HCO3:   136.9       Cl:    11.8      NO3:   2.8        F:  1.6
Sum Cations:  333.1  Sum Anions:   219.4  Cations/Anions: 1.52   Tot. P:  26.0
Tot. Al:  128.0    Ext. Al:  24.0    Fe:  350.0     Mn:    10.0    SiO2:  2.89
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A1-025   Name: ORIOLE LAKE                      State: MN  Date: 24OCT84
Sample Type: REGULAR          Latitude: 47-54'45"N    Longitude: 90-55'30"W
Elevation:  588   Surface Temp:  4.1  Stratified: MIXED      Site Depth:   1.2
Lake Area:      6 Watershed Area:    135 WA/LA:    24.1 Hydro Type: CLOSED
Residence Time:   *   Secchi Depth:  1.2  Turbidity:   0.7     Color:    44
Closed pH: 6.57       Equil. pH: 7.18             ANC:   81.0      DOC:  6.80
Closed DIC:  1.02  Equil. DIC:  0.77   Meas. Cond:  19.0  Cal. Cond:  17.1
Ca:   71.9         Mg:   52.6       Na:   30.9        K:   4.4      NH4:  2.8
SO4:   57.3      HCO3:   51.6       Cl:    5.1      NO3:   4.1        F:  5.3
Sum Cations:  162.9  Sum Anions:  123.4  Cations/Anions: 1.32   Tot. P:  20.0
Tot. Al:  118.0   Ext. Al:  30.0   Fe:  100.0     Mn:      0.0   SiO2:  0.55

ID: 2A1-026   Name: KAWISHIWI LAKE                   State: MN  Date: 23OCT84
Sample Type: REGULAR          Latitude: 47-50'35"N    Longitude: 91-06'30"W
Elevation:  501   Surface Temp:  7.2  Stratified: MIXED      Site Depth:   3.0
Lake Area:    159 Watershed Area:    798 WA/LA:     5.0 Hydro Type: DRAINAGE
Residence Time:  0.77 Secchi Depth:  0.9  Turbidity:   2.0     Color:    44
Closed pH: 6.83       Equil. pH: 7.43             ANC:  145.0      DOC:  8.30
Closed DIC:  1.70  Equil. DIC:  1.38   Meas. Cond:  25.0  Cal. Cond:  25.0
Ca:  126.2         Mg:   76.5       Na:   39.1        K:   7.6      NH4:  2.2
SO4:   66.4      HCO3:  100.4       Cl:    8.7      NO3:   2.0        F:  1.3
Sum Cations:  251.9  Sum Anions:  178.9  Cations/Anions: 1.41   Tot. P:  12.0
Tot. Al:   59.0   Ext. Al:   3.0   Fe:   90.0     Mn:      0.0   SiO2:  1.44

ID: 2A1-027   Name: ELLA LAKE                        State: MN  Date: 23OCT84
Sample Type: REGULAR          Latitude: 47-52'15"N    Longitude: 90-57'10"W
Elevation:  564   Surface Temp:  5.4  Stratified: MIXED      Site Depth:   1.5
Lake Area:     21 Watershed Area:    334 WA/LA:    16.3 Hydro Type: DRAINAGE
Residence Time:  0.15 Secchi Depth:  1.1  Turbidity:   1.9     Color:    65
Closed pH: 6.31       Equil. pH: 6.78             ANC:   64.0      DOC:  9.00
Closed DIC:  0.86  Equil. DIC:  0.56   Meas. Cond:  18.9  Cal. Cond:  17.8
Ca:   86.3         Mg:   54.3       Na:   32.6        K:   6.4      NH4:  1.7
SO4:   53.1      HCO3:   29.6       Cl:   10.2      NO3:   2.0        F: 16.3
Sum Cations:  181.9  Sum Anions:  111.2  Cations/Anions: 1.64   Tot. P:  13.0
Tot. Al:  196.0   Ext. Al:  58.0   Fe:  190.0     Mn:     10.0   SiO2:  2.57

ID: 2A1-028   Name: EUGENE LAKE                      State: MN  Date: 18OCT84
Sample Type: REGULAR          Latitude: 48-18'30"N    Longitude: 92-13'10"W
Elevation:  387   Surface Temp: 10.9  Stratified: STRONG     Site Depth:  15.2
Lake Area:     68 Watershed Area:    350 WA/LA:     5.2 Hydro Type: DRAINAGE
Residence Time:  5.66 Secchi Depth:  3.1  Turbidity:   0.5     Color:    35
Closed pH: 6.66       Equil. pH: 7.19             ANC:   90.0      DOC:  7.70
Closed DIC:  1.24  Equil. DIC:  0.80   Meas. Cond:  20.8  Cal. Cond:  21.0
Ca:   91.8         Mg:   60.0       Na:   33.9        K:   8.9      NH4:  0.0
SO4:   64.1      HCO3:   58.7       Cl:   26.8      NO3:   0.0        F:  2.1
Sum Cations:  195.0  Sum Anions:  151.7  Cations/Anions: 1.29   Tot. P:   1.0
Tot. Al:   63.0   Ext. Al:   8.0   Fe:   40.0     Mn:      0.0   SiO2:  1.13

ID: 2A1-029   Name: LUCKY FINN LAKE                  State: MN  Date: 18OCT84
Sample Type: REGULAR          Latitude: 48-16'35"N    Longitude: 92-10'45"W
Elevation:  390   Surface Temp: 10.5  Stratified: MIXED      Site Depth:   3.0
Lake Area:     12 Watershed Area:    575 WA/LA:    47.5 Hydro Type: DRAINAGE
Residence Time:  0.21 Secchi Depth:  1.1  Turbidity:   1.4     Color:    52
Closed pH: 6.44       Equil. pH: 7.10             ANC:   89.0      DOC: 11.00
Closed DIC:  1.25  Equil. DIC:  0.59   Meas. Cond:  22.3  Cal. Cond:  21.1
Ca:   87.3         Mg:   73.2       Na:   42.6        K:   9.2      NH4:  0.0
SO4:   73.5      HCO3:   44.0       Cl:   13.0      NO3:   1.1        F:  2.3
Sum Cations:  212.8  Sum Anions:  133.9  Cations/Anions: 1.59   Tot. P:   8.0
Tot. Al:   86.0   Ext. Al:  16.0   Fe:   60.0     Mn:      0.0   SiO2:  0.45
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A1-030   Name: HERITAGE LAKE                       State: MN  Date: 30OCT84
Sample Type: REGULAR             Latitude: 48-13'30"N   Longitude: 92-12'45"W
Elevation:  380   Surface Temp:  7.2  Stratified: MIXED      Site Depth:  11.6
Lake Area:     83 Watershed Area:    800 WA/LA:      9.7 Hydro Type: DRAINAGE
Residence Time:  2.95  Secchi Depth:  1.5   Turbidity:   3.0      Color:    58
Closed pH: 6.60       Equil. pH: 7.42               ANC:  120.0        DOC:  9.70
Closed DIC:  2.26   Equil. DIC:  1.42   Meas. Cond:  26.8   Cal. Cond:  26.7
Ca:  121.8           Mg:   83.9       Na:    43.1         K:  11.8       NH4:  4.4
SO4:   65.8       HCO3:  113.2        Cl:    11.6       NO3:    4.5          F:  2.3
Sum Cations:  265.1  Sum Anions:  197.3  Cations/Anions: 1.34   Tot. P:  12.0
Tot. Al:   50.0    Ext. Al:  11.0     Fe:  130.0       Mn:    0.0     SiO2:  3.03

ID: 2A1-031   Name: OYSTER LAKE                         State: MN  Date: 18OCT84
Sample Type: REGULAR             Latitude: 48-13'30"N   Longitude: 92-06'00"W
Elevation:  378   Surface Temp: 10.9  Stratified: STRONG     Site Depth:  36.9
Lake Area:    311 Watershed Area:   2725 WA/LA:      8.8 Hydro Type: DRAINAGE
Residence Time:  9.99  Secchi Depth:  3.1   Turbidity:   0.6      Color:    37
Closed pH: 6.99       Equil. pH: 7.39               ANC:  156.0        DOC: 12.60
Closed DIC:  1.82   Equil. DIC:  1.59   Meas. Cond:  29.2   Cal. Cond:  29.2
Ca:  130.7           Mg:   89.7       Na:    49.2         K:  15.9       NH4:  0.0
SO4:   83.1       HCO3:  119.7        Cl:     9.6       NO3:    2.1          F:  2.7
Sum Cations:  285.5  Sum Anions:  217.3  Cations/Anions: 1.31   Tot. P:   5.0
Tot. Al:   39.0    Ext. Al:  10.0     Fe:   30.0       Mn:    0.0     SiO2:  3.03

ID: 2A1-032   Name: LAKE AGNES                          State: MN  Date: 18OCT84
Sample Type: REGULAR             Latitude: 48-13'15"N   Longitude: 92-03'30"W
Elevation:  365   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   7.0
Lake Area:    432 Watershed Area:   6651 WA/LA:     15.4 Hydro Type: DRAINAGE
Residence Time:  1.27  Secchi Depth:  1.1   Turbidity:   2.1      Color:    97
Closed pH: 6.91       Equil. pH: 7.43               ANC:  164.0        DOC: 12.70
Closed DIC:  1.80   Equil. DIC:  1.39   Meas. Cond:  28.2   Cal. Cond:  25.7
Ca:  143.7           Mg:   91.3       Na:    44.8         K:  12.0       NH4:  0.0
SO4:   49.6       HCO3:  104.9        Cl:     3.7       NO3:    0.0          F:  3.4
Sum Cations:  292.0  Sum Anions:  161.6  Cations/Anions: 1.81   Tot. P:  16.0
Tot. Al:   97.0    Ext. Al:   8.0     Fe:  310.0       Mn:    0.0     SiO2:  1.19

ID: 2A1-033   Name: RAMSHEAD LAKE                       State: MN  Date: 18OCT84
Sample Type: REGULAR             Latitude: 48-10'45"N   Longitude: 92-06'30"W
Elevation:  374   Surface Temp: 10.5  Stratified: MIXED      Site Depth:   2.4
Lake Area:    224 Watershed Area:   3331 WA/LA:     14.9 Hydro Type: DRAINAGE
Residence Time:  0.44  Secchi Depth:  0.6   Turbidity:   5.5      Color:    56
Closed pH: 7.28       Equil. pH: 7.83               ANC:  310.0        DOC:  7.20
Closed DIC:  3.41   Equil. DIC:  3.01   Meas. Cond:  38.5   Cal. Cond:  37.1
Ca:  197.6           Mg:  129.1       Na:    57.0         K:  19.2       NH4:  0.0
SO4:   43.3       HCO3:  227.5        Cl:     5.9       NO3:    0.0          F:  3.0
Sum Cations:  403.0  Sum Anions:  280.0  Cations/Anions: 1.44   Tot. P:  55.0
Tot. Al:   85.0    Ext. Al:   5.0     Fe:   40.0       Mn:    0.0     SiO2:  3.03

ID: 2A1-034   Name: STUART LAKE                         State: MN  Date: 18OCT84
Sample Type: REGULAR             Latitude: 48-11'15"N   Longitude: 92-00'15"W
Elevation:  381   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   8.5
Lake Area:    311 Watershed Area:   6402 WA/LA:     20.6 Hydro Type: DRAINAGE
Residence Time:  1.22  Secchi Depth:  0.9   Turbidity:   2.4      Color:    83
Closed pH: 6.74       Equil. pH: 7.25               ANC:  129.0        DOC: 13.10
Closed DIC:  1.28   Equil. DIC:  0.90   Meas. Cond:  24.1   Cal. Cond:  22.0
Ca:  115.5           Mg:   82.3       Na:    38.3         K:  10.2       NH4:  2.2
SO4:   51.0       HCO3:   68.2        Cl:     8.6       NO3:    0.0          F:  2.5
Sum Cations:  248.7  Sum Anions:  130.3  Cations/Anions: 1.91   Tot. P:  13.0
Tot. Al:  116.5    Ext. Al:  12.0     Fe:  170.0       Mn:    0.0     SiO2:  0.81
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A1-035   Name: THIRD LAKE                            State: MN  Date: 18OCT84
Sample Type: REGULAR             Latitude: 48-06'00"N    Longitude: 92-00'30"W
Elevation:  427   Surface Temp:  9.4  Stratified: MIXED      Site Depth:    1.2
Lake Area:      17 Watershed Area:     109 WA/LA:       6.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.2   Turbidity:   0.7      Color:     52
Closed pH: 6.77       Equil. pH: 7.34               ANC:  114.0          DOC: 13.50
Closed DIC:  1.21   Equil. DIC:  0.89    Meas. Cond:  24.3   Cal. Cond:  23.3
Ca:  109.3          Mg:   65.8        Na:    43.9          K:    9.5      NH4:   5.0
SO4:    63.5      HCO3:   77.1       Cl:    13.3        NO3:    5.0          F:   2.3
Sum Cations:  233.7  Sum Anions:  161.3  Cations/Anions: 1.45   Tot. P:    9.0
Tot. Al:    60.0    Ext. Al:  14.0     Fe:    50.0       Mn:     0.0    SiO2:  0.26

ID: 2A1-036   Name: GREENWOOD LAKE                        State: MN  Date: 01NOV84
Sample Type: REGULAR             Latitude: 48-00'00"N    Longitude: 90-10'45"W
Elevation:  570   Surface Temp:  5.9  Stratified: MIXED      Site Depth:    8.2
Lake Area:     800 Watershed Area:    2808 WA/LA:       3.5 Hydro Type: DRAINAGE
Residence Time:  2.62  Secchi Depth:  4.3   Turbidity:   0.5      Color:     18
Closed pH: 6.91       Equil. pH: 7.28               ANC:  119.0          DOC:  3.80
Closed DIC:  1.52   Equil. DIC:  1.31    Meas. Cond:  25.0   Cal. Cond:  26.3
Ca:  115.3          Mg:   75.7        Na:    29.6          K:    7.4      NH4:   1.7
SO4:    92.9      HCO3:  100.8       Cl:    13.3        NO3:    0.4          F:   5.6
Sum Cations:  229.7  Sum Anions:  213.0  Cations/Anions: 1.08   Tot. P:   10.0
Tot. Al:    18.0    Ext. Al:   1.0     Fe:     0.0       Mn:     0.0    SiO2:  0.74

ID: 2A1-037   Name: KNIGHT LAKE                           State: MN  Date: 23OCT84
Sample Type: REGULAR             Latitude: 47-52'30"N    Longitude: 91-01'10"W
Elevation:  528   Surface Temp:  5.6  Stratified: MIXED      Site Depth:    1.5
Lake Area:      38 Watershed Area:    4095 WA/LA:     108.3 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.1   Turbidity:   1.8      Color:     97
Closed pH: 6.42       Equil. pH: 7.13               ANC:   97.0          DOC: 11.30
Closed DIC:  1.33   Equil. DIC:  0.77    Meas. Cond:  22.7   Cal. Cond:  21.4
Ca:  112.8          Mg:   69.9        Na:    37.4          K:    7.6      NH4:   2.8
SO4:    48.7      HCO3:   59.2       Cl:    13.8        NO3:    5.1          F:   5.4
Sum Cations:  230.8  Sum Anions:  132.4  Cations/Anions: 1.74   Tot. P:   20.0
Tot. Al:   159.0    Ext. Al:  43.0     Fe:   280.0       Mn:     0.0    SiO2:  3.99

ID: 2A1-038   Name: HUNCH LAKE                            State: MN  Date: 22OCT84
Sample Type: REGULAR             Latitude: 48-01'55"N    Longitude: 91-56'07"W
Elevation:  445   Surface Temp:  6.9  Stratified: MIXED      Site Depth:    2.4
Lake Area:       6 Watershed Area:      44 WA/LA:       7.5 Hydro Type: DRAINAGE
Residence Time:  0.69  Secchi Depth:  2.1   Turbidity:   0.7      Color:     55
Closed pH: 6.38       Equil. pH: 6.59               ANC:   50.0          DOC:  9.10
Closed DIC:  0.73   Equil. DIC:  0.36    Meas. Cond:  17.5   Cal. Cond:  15.7
Ca:   66.4          Mg:   51.8        Na:    33.9          K:    6.3      NH4:   6.7
SO4:    54.8      HCO3:   22.2       Cl:     6.2        NO3:    2.2          F:   2.5
Sum Cations:  165.7  Sum Anions:   87.9  Cations/Anions: 1.88   Tot. P:   11.0
Tot. Al:   151.0    Ext. Al:  39.0     Fe:   140.0       Mn:    10.0    SiO2:  0.50

ID: 2A1-039   Name: PICKET LAKE                           State: MN  Date: 17OCT84
Sample Type: REGULAR             Latitude: 48-01'48"N    Longitude: 91-50'45"W
Elevation:  418   Surface Temp: 11.2  Stratified: MIXED      Site Depth:    2.1
Lake Area:      28 Watershed Area:    3092 WA/LA:     110.0 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  0.9   Turbidity:   2.9      Color:     78
Closed pH: 6.33       Equil. pH: 6.88               ANC:   71.0          DOC: 11.80
Closed DIC:  1.01   Equil. DIC:  0.57    Meas. Cond:  21.0   Cal. Cond:  21.0
Ca:   91.8          Mg:   67.5        Na:    40.0          K:    8.9      NH4:   0.0
SO4:    72.7      HCO3:   38.0       Cl:    18.6        NO3:    1.0          F:   2.9
Sum Cations:  208.7  Sum Anions:  133.1  Cations/Anions: 1.57   Tot. P:   15.0
Tot. Al:   198.0    Ext. Al:  49.0     Fe:   180.0       Mn:     0.0    SiO2:  0.87
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A1-040   Name: RICE LAKE                          State: MN  Date: 22OCT84
Sample Type: REGULAR              Latitude: 48-01'20"N   Longitude: 91-58'20"W
Elevation:  450   Surface Temp:  5.6  Stratified: MIXED      Site Depth:   0.9
Lake Area:      47 Watershed Area:    192 WA/LA:      4.1 Hydro Type: DRAINAGE
Residence Time:  0.36  Secchi Depth:  0.9   Turbidity:   1.1      Color:    28
Closed pH: 6.48        Equil. pH: 6.84               ANC:   60.0        DOC:  7.30
Closed DIC:  0.90   Equil. DIC:  0.65    Meas. Cond:  17.6   Cal. Cond:  16.6
Ca:   67.9          Mg:    51.0        Na:    33.9         K:   8.1       NH4:  2.8
SO4:   57.3       HCO3:    41.7       Cl:    7.9         NO3:   0.4         F:  2.6
Sum Cations:  164.0  Sum Anions:   109.9  Cations/Anions: 1.49   Tot. P:   9.0
Tot. Al:   36.0    Ext. Al:   3.0     Fe:   50.0      Mn:     0.0    SiO2:  0.00

ID: 2A1-041   Name: TEE LAKE                           State: MN  Date: 22OCT84
Sample Type: REGULAR              Latitude: 48-00'00"N   Longitude: 91-52'45"W
Elevation:  439   Surface Temp:  8.2  Stratified: MIXED      Site Depth:   5.5
Lake Area:      15 Watershed Area:    357 WA/LA:     23.2 Hydro Type: DRAINAGE
Residence Time:  0.71  Secchi Depth:  1.1   Turbidity:   0.9      Color:   108
Closed pH: 6.14        Equil. pH: 6.54               ANC:   68.0        DOC: 12.90
Closed DIC:  0.85   Equil. DIC:  0.38    Meas. Cond:  20.1   Cal. Cond:  17.8
Ca:   86.8          Mg:    68.3        Na:    33.9         K:   9.3       NH4:  0.6
SO4:   56.6       HCO3:    25.5       Cl:    6.5         NO3:   0.3         F:  2.9
Sum Cations:  199.6  Sum Anions:    91.9  Cations/Anions: 2.17   Tot. P:  14.0
Tot. Al:  269.0    Ext. Al:  73.0     Fe:  260.0      Mn:    10.0    SiO2:  1.47

ID: 2A1-042   Name: SCHLAMM LAKE                       State: MN  Date: 17OCT84
Sample Type: REGULAR              Latitude: 47-57'10"N   Longitude: 92-08'15"W
Elevation:  450   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   1.5
Lake Area:      25 Watershed Area:    847 WA/LA:     33.5 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  0.6   Turbidity:   1.8      Color:   130
Closed pH: 6.13        Equil. pH: 6.51               ANC:   63.0        DOC: 14.20
Closed DIC:  0.65   Equil. DIC:  0.31    Meas. Cond:  17.3   Cal. Cond:  18.2
Ca:   77.3          Mg:    47.7        Na:    41.8         K:   6.1       NH4:  0.0
SO4:   75.0       HCO3:    19.0       Cl:   10.2         NO3:   5.5         F:  4.5
Sum Cations:  173.7  Sum Anions:   114.1  Cations/Anions: 1.52   Tot. P:  18.0
Tot. Al:  272.0    Ext. Al: 109.0     Fe:  390.0      Mn:     0.0    SiO2:  1.15

ID: 2A1-043   Name: LITTLE CRAB LAKE                   State: MN  Date: 16OCT84
Sample Type: REGULAR              Latitude: 47-57'20"N   Longitude: 92-04'30"W
Elevation:  446   Surface Temp: 11.9  Stratified: MIXED      Site Depth:   4.3
Lake Area:      24 Watershed Area:   2163 WA/LA:     91.6 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  0.7   Turbidity:   2.1      Color:   100
Closed pH: 6.19        Equil. pH: 6.77               ANC:   54.0        DOC: 11.10
Closed DIC:  0.87   Equil. DIC:  0.43    Meas. Cond:  17.8   Cal. Cond:  15.6
Ca:   75.8          Mg:    49.4        Na:    36.1         K:   7.9       NH4:  0.6
SO4:   52.5       HCO3:    24.9       Cl:    3.4         NO3:   1.0         F:  4.2
Sum Cations:  170.3  Sum Anions:    85.9  Cations/Anions: 1.98   Tot. P:  13.0
Tot. Al:  176.0    Ext. Al:  58.0     Fe:  320.0      Mn:     0.0    SiO2:  1.25

ID: 2A1-044   Name: CUMMINGS LAKE                      State: MN  Date: 22OCT84
Sample Type: REGULAR              Latitude: 47-59'30"N   Longitude: 92-05'00"W
Elevation:  443   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   9.1
Lake Area:     681 Watershed Area:   3693 WA/LA:      5.4 Hydro Type: DRAINAGE
Residence Time:  3.13  Secchi Depth:  1.9   Turbidity:   1.6      Color:    50
Closed pH: 6.50        Equil. pH: 6.83               ANC:   81.0        DOC:  7.60
Closed DIC:  0.99   Equil. DIC:  0.74    Meas. Cond:  20.3   Cal. Cond:  19.1
Ca:   85.3          Mg:    57.6        Na:    37.8         K:  11.7       NH4:  1.7
SO4:   60.2       HCO3:    51.7       Cl:    7.9         NO3:   1.3         F:  3.7
Sum Cations:  194.3  Sum Anions:   124.8  Cations/Anions: 1.56   Tot. P:   8.0
Tot. Al:   70.0    Ext. Al:   5.0     Fe:  190.0      Mn:     0.0    SiO2:  2.24
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A1-045   Name: SLIM LAKE                          State: MN  Date: 18OCT84
Sample Type: REGULAR            Latitude: 48-17'40"N   Longitude: 92-15'00"W
Elevation:  373   Surface Temp: 11.3  Stratified: WEAK       Site Depth:  11.0
Lake Area:     54 Watershed Area:    627 WA/LA:     11.6 Hydro Type: DRAINAGE
Residence Time:  2.47  Secchi Depth:  1.6   Turbidity:   0.8      Color:    44
Closed pH: 6.58       Equil. pH: 7.17             ANC:   93.0        DOC:  8.70
Closed DIC:  1.25   Equil. DIC:  0.84   Meas. Cond:  22.5   Cal. Cond:  21.4
Ca:   91.3          Mg:    74.0      Na:   34.8        K:  12.0       NH4:  0.0
SO4:   68.3      HCO3:    65.7      Cl:   10.4      NO3:   0.0         F:  1.9
Sum Cations:  212.4  Sum Anions:  146.4  Cations/Anions: 1.45  Tot. P:   1.0
Tot. Al:   96.0    Ext. Al:  12.0    Fe:   60.0     Mn:     0.0    SiO2:  1.32

ID: 2A1-046   Name: (NO NAME)                          State: MN  Date: 18OCT84
Sample Type: REGULAR            Latitude: 48-15'40"N   Longitude: 92-09'50"W
Elevation:  384   Surface Temp:  9.5  Stratified: MIXED      Site Depth:   0.9
Lake Area:     13 Watershed Area:    614 WA/LA:     47.6 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  0.9   Turbidity:   1.0      Color:    33
Closed pH: 6.73       Equil. pH: 7.26             ANC:  119.0        DOC:  8.50
Closed DIC:  1.63   Equil. DIC:  1.13   Meas. Cond:  23.8   Cal. Cond:  22.9
Ca:   92.8          Mg:    74.0      Na:   42.6        K:  13.6       NH4:  0.0
SO4:   65.2      HCO3:    85.7      Cl:   13.8      NO3:   0.0         F:  2.1
Sum Cations:  223.3  Sum Anions:  166.8  Cations/Anions: 1.34  Tot. P:   9.0
Tot. Al:   48.0    Ext. Al:   5.0    Fe:   40.0     Mn:     0.0    SiO2:  0.47

ID: 2A1-047   Name: ANGLEWORM LAKE                     State: MN  Date: 30OCT84
Sample Type: REGULAR            Latitude: 48-05'15"N   Longitude: 91-53'20"W
Elevation:  433   Surface Temp:  5.0  Stratified: MIXED      Site Depth:   2.7
Lake Area:     56 Watershed Area:    692 WA/LA:     12.4 Hydro Type: DRAINAGE
Residence Time:  0.56  Secchi Depth:  1.3   Turbidity:   2.1      Color:    73
Closed pH: 6.47       Equil. pH: 6.87             ANC:   71.5        DOC:  9.15
Closed DIC:  0.76   Equil. DIC:  0.57   Meas. Cond:  18.6   Cal. Cond:  16.4
Ca:   75.1          Mg:    54.7      Na:   37.0        K:   7.5       NH4:  0.6
SO4:   54.5      HCO3:    31.3      Cl:    5.6      NO3:   0.6         F:  2.8
Sum Cations:  175.3  Sum Anions:   94.9  Cations/Anions: 1.85  Tot. P:  20.5
Tot. Al:  157.0    Ext. Al:  24.0    Fe:  305.0     Mn:     0.0    SiO2:  5.09

ID: 2A1-048   Name: BIG RICE LAKE                      State: MN  Date: 17OCT84
Sample Type: REGULAR            Latitude: 48-01'45"N   Longitude: 92-01'30"W
Elevation:  434   Surface Temp: 10.2  Stratified: MIXED      Site Depth:   0.9
Lake Area:    161 Watershed Area:   1313 WA/LA:      8.1 Hydro Type: DRAINAGE
Residence Time:  0.25  Secchi Depth:  0.5   Turbidity:  19.0      Color:   115
Closed pH: 6.12       Equil. pH: 6.47             ANC:   52.0        DOC: 13.00
Closed DIC:  0.48   Equil. DIC:  0.24   Meas. Cond:  17.2   Cal. Cond:  14.9
Ca:   70.4          Mg:    43.6      Na:   37.4        K:   8.2       NH4:  0.0
SO4:   49.1      HCO3:    14.8      Cl:    9.0      NO3:   2.3         F:  4.1
Sum Cations:  160.4  Sum Anions:   79.3  Cations/Anions: 2.02  Tot. P:  38.0
Tot. Al:  514.0    Ext. Al:  51.0    Fe:  210.0     Mn:    10.0    SiO2:  0.32

ID: 2A1-049   Name: PINE LAKE                          State: MN  Date: 17OCT84
Sample Type: REGULAR            Latitude: 47-56'15"N   Longitude: 92-15'00"W
Elevation:  426   Surface Temp: 11.8  Stratified: MIXED      Site Depth:   3.9
Lake Area:    332 Watershed Area:   4281 WA/LA:     12.9 Hydro Type: DRAINAGE
Residence Time:  0.79  Secchi Depth:  0.9   Turbidity:   2.9      Color:    75
Closed pH: 6.81       Equil. pH: 7.24             ANC:  125.0        DOC: 10.30
Closed DIC:  1.36   Equil. DIC:  0.98   Meas. Cond:  24.7   Cal. Cond:  24.2
Ca:  114.8          Mg:    70.7      Na:   46.1        K:  10.7       NH4:  0.0
SO4:   75.4      HCO3:    75.5      Cl:   10.4      NO3:   1.7         F:  3.3
Sum Cations:  242.5  Sum Anions:  166.4  Cations/Anions: 1.46  Tot. P:  19.0
Tot. Al:  122.0    Ext. Al:  15.0    Fe:  200.0     Mn:     0.0    SiO2:  3.37
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A1-050   Name: BARTO LAKE                            State: MN  Date: 24OCT84
Sample Type: REGULAR            Latitude: 47-54'45"N    Longitude: 90-57'30"W
Elevation:  566   Surface Temp:  6.8  Stratified: MIXED       Site Depth:   5.5
Lake Area:      41 Watershed Area:     471 WA/LA:     11.4 Hydro Type: DRAINAGE
Residence Time:  0.74  Secchi Depth:  1.6   Turbidity:   1.6      Color:   53
Closed pH: 6.76        Equil. pH: 7.21               ANC:   95.9          DOC:  6.90
Closed DIC:  1.34   Equil. DIC:  1.04    Meas. Cond:  19.7   Cal. Cond:  17.9
Ca:   92.8          Mg:   60.0        Na:   34.4          K:   5.2         NH4:  2.8
SO4:   37.9       HCO3:   67.9        Cl:    5.9        NO3:   1.1            F:  4.3
Sum Cations:  195.4  Sum Anions:  117.1  Cations/Anions: 1.67   Tot. P:  12.0
Tot. Al:   55.0    Ext. Al:   8.0    Fe:  210.0      Mn:    0.0    SiO2:  3.52

ID: 2A1-051   Name: SHELL LAKE                            State: MN  Date: 30OCT84
Sample Type: REGULAR            Latitude: 48-12'15"N    Longitude: 92-12'30"W
Elevation:  384   Surface Temp:  4.6  Stratified: MIXED       Site Depth:   4.3
Lake Area:     195 Watershed Area:    2818 WA/LA:     14.4 Hydro Type: DRAINAGE
Residence Time:  0.82  Secchi Depth:  1.4   Turbidity:   2.2      Color:   55
Closed pH: 6.85        Equil. pH: 7.20               ANC:  123.0          DOC:  9.80
Closed DIC:  1.39   Equil. DIC:  1.18    Meas. Cond:  25.3   Cal. Cond:  24.1
Ca:  113.8          Mg:   80.6        Na:   43.1          K:  12.0         NH4:  0.6
SO4:   64.1       HCO3:   80.2        Cl:   11.8        NO3:   1.9            F:  3.7
Sum Cations:  250.2  Sum Anions:  161.7  Cations/Anions: 1.55   Tot. P:  19.0
Tot. Al:   91.0    Ext. Al:  12.0    Fe:   50.0      Mn:    0.0    SiO2:  2.48

ID: 2A1-053   Name: OLE LAKE                              State: MN  Date: 16OCT84
Sample Type: REGULAR            Latitude: 47-58'37"N    Longitude: 92-01'45"W
Elevation:  450   Surface Temp: 12.2  Stratified: MIXED       Site Depth:   4.9
Lake Area:      21 Watershed Area:     365 WA/LA:     17.3 Hydro Type: DRAINAGE
Residence Time:  0.80  Secchi Depth:  0.7   Turbidity:   1.8      Color:  110
Closed pH: 6.06        Equil. pH: 6.51               ANC:   55.0          DOC:  1.10
Closed DIC:  0.81   Equil. DIC:  0.27    Meas. Cond:  19.6   Cal. Cond:  17.7
Ca:   74.4          Mg:   54.3        Na:   38.3          K:   9.2         NH4:  0.6
SO4:   72.2       HCO3:   20.2        Cl:    5.1        NO3:   3.0            F:  3.8
Sum Cations:  177.5  Sum Anions:  104.3  Cations/Anions: 1.70   Tot. P:  22.0
Tot. Al:  251.0    Ext. Al:  85.0    Fe:  330.0      Mn:   10.0    SiO2:  2.32

ID: 2A1-054   Name: GUN LAKE                              State: MN  Date: 18OCT84
Sample Type: REGULAR            Latitude: 48-19'34"N    Longitude: 92-12'05"W
Elevation:  375   Surface Temp: 11.6  Stratified: STRONG      Site Depth:  36.6
Lake Area:      74 Watershed Area:     334 WA/LA:      4.5 Hydro Type: DRAINAGE
Residence Time: 14.65  Secchi Depth:  5.4   Turbidity:   0.3      Color:    8
Closed pH: 6.95        Equil. pH: 7.48               ANC:   75.0          DOC:  4.10
Closed DIC:  1.01   Equil. DIC:  0.93    Meas. Cond:  21.8   Cal. Cond:  21.9
Ca:   85.3          Mg:   63.3        Na:   34.8          K:  10.5         NH4:  0.6
SO4:   84.9       HCO3:   65.7        Cl:   13.8        NO3:   0.0            F:  1.8
Sum Cations:  194.7  Sum Anions:  166.3  Cations/Anions: 1.17   Tot. P:   0.0
Tot. Al:   28.0    Ext. Al:   4.0    Fe:   20.0      Mn:    0.0    SiO2:  0.73

ID: 2A1-055   Name: SUNFISH LAKE                          State: MN  Date: 01NOV84
Sample Type: REGULAR            Latitude: 47-59'30"N    Longitude: 90-09'15"W
Elevation:  570   Surface Temp:  3.5  Stratified: MIXED       Site Depth:   5.5
Lake Area:      33 Watershed Area:     117 WA/LA:      3.5 Hydro Type: DRAINAGE
Residence Time:  1.75  Secchi Depth:  3.1   Turbidity:   0.5      Color:   13
Closed pH: 7.07        Equil. pH: 7.23               ANC:  165.5          DOC:  4.60
Closed DIC:  1.96   Equil. DIC:  1.77    Meas. Cond:  27.3   Cal. Cond:  27.4
Ca:  130.2          Mg:   77.3        Na:   36.1          K:   6.9         NH4:  2.2
SO4:   70.2       HCO3:  135.3        Cl:   11.3        NO3:   0.2            F: 10.1
Sum Cations:  252.9  Sum Anions:  227.3  Cations/Anions: 1.11   Tot. P:  12.0
Tot. Al:  283.0    Ext. Al:   2.0    Fe:   30.0      Mn:    0.0    SiO2:  1.61
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A1-056   Name: LONGLEG LAKE                       State: MN  Date: 24OCT84
Sample Type: REGULAR           Latitude: 47-54'50"N    Longitude: 90-56'37"W
Elevation:  588   Surface Temp:  4.6  Stratified: MIXED      Site Depth:    1.5
Lake Area:      12 Watershed Area:     54 WA/LA:     4.6 Hydro Type: DRAINAGE
Residence Time:  0.41  Secchi Depth:  0.4  Turbidity:   0.7      Color:    66
Closed pH: 6.38        Equil. pH: 7.04             ANC:  135.0        DOC:  7.70
Closed DIC:  2.03   Equil. DIC:  1.03   Meas. Cond:  19.1   Cal. Cond:  18.0
Ca:   74.8           Mg:   63.3      Na:   41.3       K:   4.3      NH4:   5.5
SO4:   33.7      HCO3:   75.5      Cl:    5.6      NO3:   8.8        F:   2.6
Sum Cations:  189.9  Sum Anions:  126.3  Cations/Anions: 1.50  Tot. P:  18.0
Tot. Al:   77.0   Ext. Al:  21.0    Fe:  100.0    Mn:     0.0   SiO2:  1.16


ID: 2A1-057   Name: HOOK LAKE                          State: MN  Date: 22OCT84
Sample Type: REGULAR           Latitude: 48-01'12"N    Longitude: 91-59'15"W
Elevation:  454   Surface Temp:  8.4  Stratified: MIXED      Site Depth:    4.0
Lake Area:      34 Watershed Area:    443 WA/LA:    13.2 Hydro Type: DRAINAGE
Residence Time:  0.79  Secchi Depth:  2.1  Turbidity:   0.9      Color:    34
Closed pH: 6.23        Equil. pH: 6.58             ANC:   42.0        DOC:  6.80
Closed DIC:  0.77   Equil. DIC:  0.42   Meas. Cond:  15.2   Cal. Cond:  13.9
Ca:   55.4           Mg:   46.1      Na:   29.1       K:   8.3      NH4:   0.0
SO4:   52.3      HCO3:   24.5      Cl:    6.2      NO3:   0.0        F:   2.8
Sum Cations:  139.4  Sum Anions:   85.8  Cations/Anions: 1.63  Tot. P:  12.0
Tot. Al:   86.0   Ext. Al:  14.0    Fe:  130.0    Mn:     0.0   SiO2:  1.34


ID: 2A1-059   Name: BOOTLEG LAKE                       State: MN  Date: 17OCT84
Sample Type: REGULAR           Latitude: 48-02'30"N    Longitude: 92-11'50"W
Elevation,  426   Surface Temp: 11.7  Stratified: MIXED      Site Depth:    6.7
Lake Area:     138 Watershed Area:   1214 WA/LA:     8.8 Hydro Type: DRAINAGE
Residence Time:  1.76  Secchi Depth:  1.8  Turbidity:   1.0      Color:    44
Closed pH: 6.77        Equil. pH: 7.10             ANC:   63.0        DOC:  8.50
Closed DIC:  1.13   Equil. DIC:  0.89   Meas. Cond:  21.5   Cal. Cond:  20.3
Ca:  103.8           Mg:   54.3      Na:   40.0       K:   7.9      NH4:   0.0
SO4:   62.9      HCO3:   62.1      Cl:    8.2      NO3:   0.0        F:   3.3
Sum Cations:  206.2  Sum Anions:  136.5  Cations/Anions: 1.51  Tot. P:   7.0
Tot. Al:   45.0   Ext. Al:  12.0    Fe:   60.0    Mn:     0.0   SiO2:  1.46


ID: 2A1-060   Name: MULE LAKE                          State: MN  Date: 18OCT84
Sample Type: REGULAR           Latitude: 48-08'15"N    Longitude: 92-02'15"W
Elevation:  411   Surface Temp: 10.7  Stratified: MIXED      Site Depth:    2.4
Lake Area:      22 Watershed Area:    448 WA/LA:    20.5 Hydro Type: DRAINAGE
Residence Time:  0.34  Secchi Depth:  1.1  Turbidity:   1.4      Color:    71
Closed pH: 6.47        Equil. pH: 7.03             ANC:   82.0        DOC: 12.20
Closed DIC:  1.02   Equil. DIC:  0.62   Meas. Cond:  18.9   Cal. Cond:  17.3
Ca:   82.3           Mg:   58.4      Na:   33.9       K:   9.2      NH4:   0.6
SO4:   50.8      HCO3:   42.0      Cl:    9.6      NO3:   0.2        F:   1.8
Sum Cations:  184.8  Sum Anions:  104.4  Cations/Anions: 1.77  Tot. P:  15.0
Tot. Al:   96.0   Ext. Al:  22.0    Fe:   60.0    Mn:     0.0   SiO2:  0.29


ID: 2A2-001   Name: SEAL LAKE                          State: MN  Date: 29OCT84
Sample Type: REGULAR           Latitude: 48-02'15"N    Longitude: 90-43'13"W
Elevation:  552   Surface Temp:  5.6  Stratified: MIXED      Site Depth:    4.9
Lake Area:      11 Watershed Area:    246 WA/LA:    22.8 Hydro Type: DRAINAGE
Residence Time:  0.36  Secchi Depth:  1.6  Turbidity:   4.1      Color:    87
Closed pH: 6.98        Equil. pH: 7.57             ANC:  194.0        DOC:  9.70
Closed DIC:  2.19   Equil. DIC:  1.83   Meas. Cond:  32.8   Cal. Cond:  32.6
Ca:  141.2           Mg:  142.3      Na:   51.3       K:   5.6      NH4:   3.3
SO4:   72.9      HCO3:  142.6      Cl:   10.7      NO3:   3.7        F:   1.7
Sum Cations:  343.9  Sum Anions:  231.7  Cations/Anions: 1.48  Tot. P:  17.0
Tot. Al:   77.0   Ext. Al:  13.0    Fe:  490.0    Mn:     0.0   SiO2:  8.03
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A2-002   Name: BENCH LAKE                          State: MN  Date: 29OCT84
Sample Type: REGULAR              Latitude: 48-03'20"N    Longitude: 90-14'15"W
Elevation:  524   Surface Temp:  4.9  Stratified: MIXED      Site Depth:   3.6
Lake Area:      11 Watershed Area:      47 WA/LA:      4.3 Hydro Type: DRAINAGE
Residence Time:  1.02  Secchi Depth:  2.0   Turbidity:   1.2     Color:   16
Closed pH: 7.39        Equil. pH: 7.65             ANC:  348.0          DOC:  4.90
Closed DIC:  3.88  Equil. DIC:  3.64    Meas. Cond:  41.1   Cal. Cond:  41.2
Ca:  186.6          Mg:  148.9        Na:    52.2          K:  13.8       NH4: 10.5
SO4:    57.3       HCO3:  280.9       Cl:     6.8        NO3:   0.0          F:  1.9
Sum Cations:  412.1  Sum Anions:  347.5  Cations/Anions: 1.19   Tot. P:  17.0
Tot. Al:    13.0    Ext. Al:    1.0    Fe:    30.0      Mn:     0.0     SiO2:  1.89
```

```
ID: 2A2-003   Name: FUN LAKE                            State: MN  Date: 29OCT84
Sample Type: REGULAR              Latitude: 48-00'10"N    Longitude: 90-44'20"W
Elevation:  546   Surface Temp:  5.0  Stratified: MIXED      Site Depth:   5.2
Lake Area:       8 Watershed Area:     223 WA/LA:     29.7 Hydro Type: DRAINAGE
Residence Time:  0.30  Secchi Depth:  1.3   Turbidity:   2.3     Color:  105
Closed pH: 6.67        Equil. pH: 7.39             ANC:  149.0          DOC: 11.90
Closed DIC:  1.82  Equil. DIC:  1.19    Meas. Cond:  29.7   Cal. Cond:  29.5
Ca:  119.8          Mg:  124.2        Na:    42.2          K:   9.2       NH4:  5.0
SO4:    92.9       HCO3:   86.3       Cl:    11.8        NO3:   4.1          F:  1.3
Sum Cations:  300.6  Sum Anions:  196.4  Cations/Anions: 1.53   Tot. P:  18.0
Tot. Al:  131.0    Ext. Al:  34.0    Fe:   310.0      Mn:     0.0     SiO2:  5.37
```

```
ID: 2A2-004   Name: HUMPBACK LAKE                       State: MN  Date: 23OCT84
Sample Type: REGULAR              Latitude: 47-59'10"N    Longitude: 91-05'50"W
Elevation:  490   Surface Temp:  8.0  Stratified: MIXED      Site Depth:  12.2
Lake Area:       9 Watershed Area:      52 WA/LA:      5.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.3   Turbidity:   0.5     Color:   19
Closed pH: 6.79        Equil. pH: 7.47             ANC:  157.0          DOC:  4.80
Closed DIC:  2.41  Equil. DIC:  1.80    Meas. Cond:  24.1   Cal. Cond:  25.1
Ca:  143.2          Mg:   49.4        Na:    37.4          K:   4.7       NH4:  3.3
SO4:    55.8       HCO3:  143.9       Cl:     7.1        NO3:   0.2          F:  0.7
Sum Cations:  238.1  Sum Anions:  207.8  Cations/Anions: 1.15   Tot. P:   1.0
Tot. Al:    25.0    Ext. Al:    4.0    Fe:    40.0      Mn:    10.0     SiO2:  3.75
```

```
ID: 2A2-005   Name: SANDPIT LAKE                        State: MN  Date: 17OCT84
Sample Type: REGULAR              Latitude: 48-02'20"N    Longitude: 91-47'30"W
Elevation:  398   Surface Temp: 11.6  Stratified: MIXED      Site Depth:  12.8
Lake Area:      23 Watershed Area:      98 WA/LA:      4.3 Hydro Type: DRAINAGE
Residence Time:  4.92  Secchi Depth:  3.3   Turbidity:   0.4     Color:   20
Closed pH: 7.04        Equil. pH: 7.62             ANC:  196.0          DOC:  5.50
Closed DIC:  2.62  Equil. DIC:  2.16    Meas. Cond:  28.9   Cal. Cond:  28.9
Ca:  128.2          Mg:   91.3        Na:    39.1          K:  18.9       NH4:  0.0
SO4:    60.4       HCO3:  163.4       Cl:     9.9        NO3:   0.5          F:  1.9
Sum Cations:  277.7  Sum Anions:  236.2  Cations/Anions: 1.18   Tot. P:   7.0
Tot. Al:    20.0    Ext. Al:    2.0    Fe:    30.0      Mn:     0.0     SiO2:  1.48
```

```
ID: 2A2-007   Name: ROUND LAKE                          State: MN  Date: 17OCT84
Sample Type: REGULAR              Latitude: 48-08'40"N    Longitude: 91-42'45"W
Elevation:  390   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   1.8
Lake Area:      10 Watershed Area:      83 WA/LA:      8.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.1   Turbidity:   1.2     Color:   65
Closed pH: 6.42        Equil. pH: 7.04             ANC:   87.0          DOC: 12.80
Closed DIC:  0.98  Equil. DIC:  0.55    Meas. Cond:  21.0   Cal. Cond:  19.8
Ca:   78.3          Mg:   78.1        Na:    37.4          K:  11.0       NH4:  0.0
SO4:    71.8       HCO3:   36.4       Cl:     8.7        NO3:   0.0          F:  3.3
Sum Cations:  205.3  Sum Anions:  120.2  Cations/Anions: 1.71   Tot. P:   9.0
Tot. Al:    88.0    Ext. Al:   29.0    Fe:   130.0      Mn:    10.0     SiO2:  5.63
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A2-008   Name: FINSTAD LAKE                      State: MN  Date: 21OCT84
Sample Type: REGULAR           Latitude: 48-05'00"N   Longitude: 92-26'35"W
Elevation:  407   Surface Temp:  7.9  Stratified: MIXED     Site Depth:   2.1
Lake Area:       29 Watershed Area:     246 WA/LA:     8.5 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.3   Turbidity:   1.4      Color:   57
Closed pH: 6.63        Equil. pH: 7.08            ANC:    98.6         DOC: 17.00
Closed DIC:  1.09   Equil. DIC:  0.72    Meas. Cond:  19.0   Cal. Cond:  19.4
Ca:   97.3          Mg:   71.6      Na:    37.4          K:   8.4      NH4:   0.0
SO4:   53.3      HCO3:   55.3      Cl:    4.5        NO3:   1.2          F:   1.9
Sum Cations:  214.9  Sum Anions:  116.3  Cations/Anions: 1.85   Tot. P:  16.0
Tot. Al:   80.0    Ext. Al:  27.0     Fe:    70.0      Mn:     0.0    SiO2:  0.52

ID: 2A2-009   Name: PEAR LAKE                         State: MN  Date: 23OCT84
Sample Type: REGULAR           Latitude: 48-04'10"N   Longitude: 91-07'10"W
Elevation:  488   Surface Temp:  8.5  Stratified: MIXED     Site Depth:   9.4
Lake Area:       11 Watershed Area:      28 WA/LA:     2.6 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  2.9   Turbidity:   0.6      Color:   35
Closed pH: 7.07        Equil. pH: 7.95            ANC:   379.0         DOC:  7.70
Closed DIC:  4.98   Equil. DIC:  4.03    Meas. Cond:  52.5   Cal. Cond:  53.2
Ca:  391.2          Mg:   78.1      Na:    39.1          K:   9.8      NH4:   0.6
SO4:   91.4      HCO3:  334.4      Cl:    8.5        NO3:   0.8          F:   1.3
Sum Cations:  519.0  Sum Anions:  436.9  Cations/Anions: 1.19   Tot. P:  12.0
Tot. Al:   34.0    Ext. Al:   5.0     Fe:    20.0      Mn:     0.0    SiO2:  3.14

ID: 2A2-010   Name: SEAHORSE LAKE                     State: MN  Date: 24OCT84
Sample Type: REGULAR           Latitude: 48-04'33"N   Longitude: 90-56'55"W
Elevation:  513   Surface Temp:  7.0  Stratified: MIXED     Site Depth:  11.6
Lake Area:       11 Watershed Area:    1370 WA/LA:   122.3 Hydro Type: DRAINAGE
Residence Time:  0.17   Secchi Depth:  1.5   Turbidity:   1.5      Color:   52
Closed pH: 6.61        Equil. pH: 7.61            ANC:   190.0         DOC:  8.40
Closed DIC:  3.06   Equil. DIC:  2.06    Meas. Cond:  32.3   Cal. Cond:  32.7
Ca:  173.2          Mg:  111.1      Na:    34.4          K:   6.9      NH4:   3.3
SO4:   67.9      HCO3:  174.3      Cl:    9.3        NO3:   0.5          F:   1.2
Sum Cations:  329.0  Sum Anions:  253.2  Cations/Anions: 1.30   Tot. P:  16.0
Tot. Al:   40.0    Ext. Al:   9.0     Fe:   130.0      Mn:    20.0    SiO2:  2.77

ID: 2A2-011   Name: BURT LAKE                         State: MN  Date: 29OCT84
Sample Type: REGULAR           Latitude: 48-00'35"N   Longitude: 90-48'35"W
Elevation:  549   Surface Temp:  5.0  Stratified: MIXED     Site Depth:   5.5
Lake Area:       17 Watershed Area:      60 WA/LA:     3.5 Hydro Type: DRAINAGE
Residence Time:  1.78   Secchi Depth:  2.4   Turbidity:   1.1      Color:   30
Closed pH: 7.10        Equil. pH: 7.61            ANC:   197.0         DOC:  5.30
Closed DIC:  2.66   Equil. DIC:  2.21    Meas. Cond:  29.7   Cal. Cond:  28.7
Ca:  164.7          Mg:   81.4      Na:    29.6          K:   9.2      NH4:   1.7
SO4:   54.3      HCO3:  163.1      Cl:    4.8        NO3:   2.9          F:   1.3
Sum Cations:  286.7  Sum Anions:  226.7  Cations/Anions: 1.26   Tot. P:  44.0
Tot. Al:   20.0    Ext. Al:   3.0     Fe:   120.0      Mn:     0.0    SiO2:  3.75

ID: 2A2-012   Name: BECOOSIN LAKE                     State: MN  Date: 16OCT84
Sample Type: REGULAR           Latitude: 47-56'53"N   Longitude: 91-23'36"W
Elevation:  460   Surface Temp: 11.8  Stratified: MIXED     Site Depth:   4.9
Lake Area:       22 Watershed Area:     212 WA/LA:     9.6 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.3   Turbidity:   1.2      Color:   78
Closed pH: 6.89        Equil. pH: 7.44            ANC:   163.0         DOC: 10.20
Closed DIC:  2.41   Equil. DIC:  1.60    Meas. Cond:  30.5   Cal. Cond:  29.8
Ca:  118.3          Mg:  149.7      Na:    44.4          K:   5.6      NH4:   0.0
SO4:   72.0      HCO3:  131.7      Cl:    5.1        NO3:   0.5          F:   1.3
Sum Cations:  318.1  Sum Anions:  210.7  Cations/Anions: 1.51   Tot. P:  15.0
Tot. Al:   47.0    Ext. Al:  11.0     Fe:   310.0      Mn:     0.0    SiO2:  0.63
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A2-013   Name: AMBER LAKE                        State: MN  Date: 23OCT84
Sample Type: REGULAR            Latitude: 47-57'15"N    Longitude: 91-11'00"W
Elevation:  468   Surface Temp:  7.9  Stratified: MIXED      Site Depth:   5.5
Lake Area:      50 Watershed Area:   3717 WA/LA:     74.2 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  1.5   Turbidity:   1.3      Color:   57
Closed pH: 7.03       Equil. pH: 7.52             ANC:  156.0          DOC:  9.10
Closed DIC:  1.66   Equil. DIC:  1.41    Meas. Cond:  25.5   Cal. Cond:  24.7
Ca:  130.2            Mg:   90.5       Na:   40.9        K:   6.2       NH4:  0.6
SO4:   49.6       HCO3:  106.6       Cl:    9.6       NO3:   0.2          F:  1.5
Sum Cations:  268.5  Sum Anions:  167.5  Cations/Anions: 1.60   Tot. P:  13.0
Tot. Al:   43.0    Ext. Al:    4.0    Fe:  140.0      Mn:    0.0    SiO2:  2.17

ID: 2A2-014   Name: POE LAKE                          State: MN  Date: 24OCT84
Sample Type: REGULAR            Latitude: 47-57'15"N    Longitude: 90-57'15"W
Elevation:  543   Surface Temp:  7.4  Stratified: MIXED      Site Depth:  10.7
Lake Area:      15 Watershed Area:   1189 WA/LA:     81.4 Hydro Type: DRAINAGE
Residence Time:  0.23  Secchi Depth:  2.1   Turbidity:   0.7      Color:   34
Closed pH: 6.43       Equil. pH: 7.26             ANC:   89.0          DOC:  5.10
Closed DIC:  1.71   Equil. DIC:  1.03    Meas. Cond:  17.0   Cal. Cond:  16.3
Ca:   79.8            Mg:   48.5       Na:   27.4        K:   4.0       NH4:  2.8
SO4:   37.9       HCO3:   71.8       Cl:    6.2       NO3:   1.6          F:  2.6
Sum Cations:  163.0  Sum Anions:  120.1  Cations/Anions: 1.36   Tot. P:   0.0
Tot. Al:   38.0    Ext. Al:    8.0    Fe:   80.0      Mn:    0.0    SiO2:  2.31

ID: 2A2-015   Name: FAMINE LAKE                       State: MN  Date: 29OCT84
Sample Type: REGULAR            Latitude: 47-57'50"N    Longitude: 90-43'00"W
Elevation:  594   Surface Temp:  5.7  Stratified: MIXED      Site Depth:   8.5
Lake Area:      12 Watershed Area:     93 WA/LA:      7.8 Hydro Type: DRAINAGE
Residence Time:  1.57  Secchi Depth:  1.3   Turbidity:   1.5      Color:   60
Closed pH: 6.58       Equil. pH: 7.24             ANC:  111.0          DOC:  8.80
Closed DIC:  1.58   Equil. DIC:  1.05    Meas. Cond:  24.8   Cal. Cond:  24.1
Ca:  123.3            Mg:   72.4       Na:   34.4        K:   4.6       NH4:  2.2
SO4:   78.9       HCO3:   74.4       Cl:    7.3       NO3:   2.0          F:  6.1
Sum Cations:  237.1  Sum Anions:  168.7  Cations/Anions: 1.41   Tot. P:  24.0
Tot. Al:  104.0    Ext. Al:   28.0    Fe:  110.0      Mn:    0.0    SiO2:  4.18

ID: 2A2-016   Name: VANCE LAKE                        State: MN  Date: 29OCT84
Sample Type: REGULAR            Latitude: 47-57'47"N    Longitude: 90-35'52"W
Elevation:  594   Surface Temp:  6.2  Stratified: MIXED      Site Depth:  10.3
Lake Area:      22 Watershed Area:    135 WA/LA:      6.1 Hydro Type: DRAINAGE
Residence Time:  2.28  Secchi Depth:  2.6   Turbidity:   0.8      Color:   22
Closed pH: 6.80       Equil. pH: 7.35             ANC:  119.0          DOC:  5.80
Closed DIC:  1.38   Equil. DIC:  1.14    Meas. Cond:  25.6   Cal. Cond:  26.2
Ca:  116.8            Mg:   81.4       Na:   31.3        K:   5.6       NH4:  2.8
SO4:   90.6       HCO3:   81.1       Cl:   19.5       NO3:   0.8          F:  4.7
Sum Cations:  238.1  Sum Anions:  196.7  Cations/Anions: 1.21   Tot. P:   6.0
Tot. Al:   26.0    Ext. Al:    5.0    Fe:   20.0      Mn:    0.0    SiO2:  3.89

ID: 2A2-018   Name: WEASEL LAKE                       State: MN  Date: 16OCT84
Sample Type: REGULAR            Latitude: 47-53'47"N    Longitude: 91-31'00"W
Elevation:  457   Surface Temp:  9.4  Stratified: MIXED      Site Depth:   1.8
Lake Area:       8 Watershed Area:    171 WA/LA:     22.8 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  0.6   Turbidity:   0.8      Color:  190
Closed pH: 6.74       Equil. pH: 7.38             ANC:  100.0          DOC: 21.50
Closed DIC:  1.87   Equil. DIC:  1.25    Meas. Cond:  32.6   Cal. Cond:  30.2
Ca:  140.2            Mg:  170.3       Na:   48.3        K:   9.5       NH4:  2.2
SO4:   52.3       HCO3:   95.4       Cl:    9.6       NO3:   3.1          F:  1.7
Sum Cations:  370.6  Sum Anions:  162.2  Cations/Anions: 2.29   Tot. P:  28.0
Tot. Al:  229.0    Ext. Al:   39.0    Fe:  450.0      Mn:    0.0    SiO2:  3.01
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A2-019   Name: WHIP LAKE                        State: MN  Date: 29OCT84
Sample Type: REGULAR           Latitude: 47-55'10"N    Longitude: 90-41'45"W
Elevation:  564   Surface Temp:  4.0  Stratified: MIXED     Site Depth:   1.8
Lake Area:      13 Watershed Area:     60 WA/LA:      4.5 Hydro Type: DRAINAGE
Residence Time:  0.50  Secchi Depth:  0.9  Turbidity:   0.9     Color:  135
Closed pH: 6.29        Equil. pH: 6.86              ANC:   85.0       DOC: 13.60
Closed DIC:  0.82   Equil. DIC:  0.43    Meas. Cond:  25.3   Cal. Cond:  23.5
Ca:   99.8          Mg:  109.4      Na:    40.5        K:   6.4      NH4:   1.7
SO4:   83.1      HCO3:   29.6      Cl:     7.9      NO3:   4.2         F:   1.7
Sum Cations:  258.3  Sum Anions:  126.5  Cations/Anions: 2.04   Tot. P:  18.0
Tot. Al:  176.0    Ext. Al:  62.0    Fe:  350.0      Mn:    0.0    SiO2:  7.46


ID: 2A2-020   Name: BALL CLUB LAKE                   State: MN  Date: 01NOV84
Sample Type: REGULAR           Latitude: 47-54'46"N    Longitude: 90-29'37"W
Elevation:  587   Surface Temp:  3.7  Stratified: MIXED     Site Depth:   4.8
Lake Area:      75 Watershed Area:    342 WA/LA:      4.6 Hydro Type: DRAINAGE
Residence Time:  1.30  Secchi Depth:  3.6  Turbidity:   0.8     Color:   30
Closed pH: 7.01        Equil. pH: 7.50              ANC:  147.0       DOC:  5.30
Closed DIC:  1.89   Equil. DIC:  1.63    Meas. Cond:  30.0   Cal. Cond:  29.9
Ca:  141.7          Mg:   95.4      Na:    32.2        K:   6.4      NH4:   2.8
SO4:   96.8      HCO3:  117.1      Cl:     7.9      NO3:   4.5         F:   3.8
Sum Cations:  278.6  Sum Anions:  230.3  Cations/Anions: 1.21   Tot. P:  16.0
Tot. Al:   26.0    Ext. Al:   0.0    Fe:  180.0      Mn:   10.0    SiO2:  4.80


ID: 2A2-022   Name: PHOSPOR LAKE                     State: MN  Date: 16OCT84
Sample Type: REGULAR           Latitude: 47-50'07"N    Longitude: 91-29'07"W
Elevation:  470   Surface Temp: 12.4  Stratified: MIXED     Site Depth:   4.9
Lake Area:      14 Watershed Area:     57 WA/LA:      4.2 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.6  Turbidity:   0.8     Color:   50
Closed pH: 6.99        Equil. pH: 7.44              ANC:  173.0       DOC:  9.80
Closed DIC:  2.09   Equil. DIC:  1.72    Meas. Cond:  29.1   Cal. Cond:  27.8
Ca:  141.7          Mg:  105.3      Na:    30.9        K:   6.9      NH4:   0.0
SO4:   62.7      HCO3:  134.4      Cl:     7.3      NO3:   1.3         F:   1.2
Sum Cations:  284.9  Sum Anions:  207.0  Cations/Anions: 1.38   Tot. P:   6.0
Tot. Al:   24.0    Ext. Al:   5.0    Fe:  200.0      Mn:    0.0    SiO2:  0.94


ID: 2A2-023   Name: HORN LAKE                        State: MN  Date: 29OCT84
Sample Type: REGULAR           Latitude: 47-51'13"N    Longitude: 90-47'37"W
Elevation:  552   Surface Temp:  4.6  Stratified: MIXED     Site Depth:   0.9
Lake Area:      14 Watershed Area:    101 WA/LA:      7.2 Hydro Type: DRAINAGE
Residence Time:  0.18  Secchi Depth:  0.9  Turbidity:   1.5     Color:  110
Closed pH: 6.27        Equil. pH: 6.73              ANC:   71.0       DOC: 10.40
Closed DIC:  1.08   Equil. DIC:  0.50    Meas. Cond:  22.2   Cal. Cond:  20.7
Ca:  108.8          Mg:   54.3      Na:    38.7        K:   9.2      NH4:   2.8
SO4:   63.9      HCO3:   34.6      Cl:     7.3      NO3:   4.5         F:  13.7
Sum Cations:  214.3  Sum Anions:  124.1  Cations/Anions: 1.73   Tot. P:  13.0
Tot. Al:  177.0    Ext. Al:  51.0    Fe: 1060.0      Mn:   20.0    SiO2:  4.41


ID: 2A2-026   Name: BAKEKAMA LAKE                    State: MN  Date: 23OCT84
Sample Type: REGULAR           Latitude: 48-02'55"N    Longitude: 91-09'15"W
Elevation:  500   Surface Temp:  7.2  Stratified: MIXED     Site Depth:   2.4
Lake Area:      26 Watershed Area:    202 WA/LA:      7.7 Hydro Type: DRAINAGE
Residence Time:  0.45  Secchi Depth:  1.0  Turbidity:   1.3     Color:   65
Closed pH: 6.92        Equil. pH: 7.48              ANC:  156.0       DOC: 10.00
Closed DIC:  1.68   Equil. DIC:  1.47    Meas. Cond:  31.9   Cal. Cond:  30.9
Ca:  177.1          Mg:   85.5      Na:    41.3        K:  11.3      NH4:   1.7
SO4:   90.4      HCO3:  101.6      Cl:     9.3      NO3:   2.4         F:   1.8
Sum Cations:  317.1  Sum Anions:  205.6  Cations/Anions: 1.54   Tot. P:  18.0
Tot. Al:   39.0    Ext. Al:  13.0    Fe:  100.0      Mn:    0.0    SiO2:  3.08
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A2-028   Name: OWL LAKE                          State: MN  Date: 24OCT84
Sample Type: REGULAR            Latitude: 48-02'25"N    Longitude: 90-54'30"W
Elevation:  511   Surface Temp:  8.7  Stratified: MIXED      Site Depth:  11.9
Lake Area:      31 Watershed Area:     111 WA/LA:      3.6 Hydro Type: DRAINAGE
Residence Time:  3.78  Secchi Depth:  5.2   Turbidity:   0.5      Color:   25
Closed pH: 7.06        Equil. pH: 7.73              ANC:  207.0        DOC:  5.00
Closed DIC:  2.57   Equil. DIC:  2.08     Meas. Cond:  31.6   Cal. Cond:  33.6
Ca:  125.2          Mg:  151.4       Na:    31.8        K:   5.9       NH4:  0.6
SO4:    72.7      HCO3:  215.0       Cl:     7.3      NO3:   0.3         F:  0.8
Sum Cations:  314.8  Sum Anions:  296.4  Cations/Anions: 1.06   Tot. P:   8.0
Tot. Al:   17.0    Ext. Al:   1.0    Fe:   30.0      Mn:     0.0    SiO2:  4.43

ID: 2A2-029   Name: (NO NAME)                         State: MN  Date: 29OCT84
Sample Type: REGULAR            Latitude: 48-02'10"N    Longitude: 90-48'10"W
Elevation:  549   Surface Temp:  5.3  Stratified: MIXED      Site Depth:   5.5
Lake Area:       5 Watershed Area:     106 WA/LA:     23.6 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  1.5   Turbidity:   2.5      Color:   95
Closed pH: 6.87        Equil. pH: 7.65              ANC:  270.0        DOC:  7.30
Closed DIC:  3.60   Equil. DIC:  2.71     Meas. Cond:  34.9   Cal. Cond:  34.7
Ca:  149.2          Mg:  153.0       Na:    36.1        K:  12.0       NH4:  7.8
SO4:    50.4      HCO3:  215.0       Cl:     6.5      NO3:   3.1         F:  1.5
Sum Cations:  358.2  Sum Anions:  276.6  Cations/Anions: 1.29   Tot. P:  17.0
Tot. Al:   30.0    Ext. Al:   3.0    Fe:  920.0      Mn:     0.0    SiO2:  6.27

ID: 2A2-031   Name: TRAP LAKE                         State: MN  Date: 29OCT84
Sample Type: REGULAR            Latitude: 48-01'40"N    Longitude: 90-21'45"W
Elevation:  561   Surface Temp:  3.1  Stratified: MIXED      Site Depth:   0.9
Lake Area:      25 Watershed Area:     142 WA/LA:      5.8 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  0.9   Turbidity:   1.9      Color:   65
Closed pH: 6.62        Equil. pH: 6.95              ANC:   87.0        DOC: 11.60
Closed DIC:  0.84   Equil. DIC:  0.65     Meas. Cond:  21.3   Cal. Cond:  24.2
Ca:   83.3          Mg:   81.4       Na:    33.5        K:   7.2       NH4:  1.7
SO4:    69.5      HCO3:   38.9       Cl:    65.4      NO3:   0.7         F:  1.7
Sum Cations:  207.5  Sum Anions:  176.3  Cations/Anions: 1.18   Tot. P:  13.0
Tot. Al:   73.0    Ext. Al:  20.0    Fe:   60.0      Mn:     0.0    SiO2:  2.32

ID: 2A2-032   Name: FAULT LAKE                        State: MN  Date: 29OCT84
Sample Type: REGULAR            Latitude: 48-02'15"N    Longitude: 90-07'30"W
Elevation:  555   Surface Temp:  3.9  Stratified: MIXED      Site Depth:   2.7
Lake Area:      23 Watershed Area:    1681 WA/LA:     72.5 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  0.5   Turbidity:   2.2      Color:  145
Closed pH: 6.58        Equil. pH: 7.18              ANC:  133.0        DOC: 16.60
Closed DIC:  1.27   Equil. DIC:  0.89     Meas. Cond:  27.9   Cal. Cond:  26.3
Ca:  120.8          Mg:  116.0       Na:    46.1        K:  11.8       NH4:  1.7
SO4:    70.0      HCO3:   55.8       Cl:    13.5      NO3:   3.8         F:  2.3
Sum Cations:  296.7  Sum Anions:  145.4  Cations/Anions: 2.04   Tot. P:  29.0
Tot. Al:  156.0    Ext. Al:  39.0    Fe:  450.0      Mn:     0.0    SiO2:  6.32

ID: 2A2-033   Name: HOE LAKE                          State: MN  Date: 24OCT84
Sample Type: REGULAR            Latitude: 48-01'00"N    Longitude: 91-03'45"W
Elevation:  501   Surface Temp:  8.2  Stratified: MIXED      Site Depth:   5.8
Lake Area:      19 Watershed Area:     549 WA/LA:     29.4 Hydro Type: DRAINAGE
Residence Time:  0.34  Secchi Depth:  1.4   Turbidity:   1.6      Color:   72
Closed pH: 6.96        Equil. pH: 7.69              ANC:  226.0        DOC: 10.10
Closed DIC:  2.48   Equil. DIC:  2.11     Meas. Cond:  30.5   Cal. Cond:  30.2
Ca:  169.7          Mg:  100.4       Na:    45.2        K:   7.5       NH4:  3.3
SO4:    41.2      HCO3:  172.0       Cl:     5.9      NO3:   2.5         F:  1.2
Sum Cations:  326.2  Sum Anions:  223.0  Cations/Anions: 1.46   Tot. P:  23.0
Tot. Al:   71.0    Ext. Al:   8.0    Fe:  270.0      Mn:     0.0    SiO2:  2.55
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A2-034   Name: JAM LAKE                      State: MN  Date: 24OCT84
Sample Type: REGULAR          Latitude: 48-01'07"N    Longitude: 90-58'00"W
Elevation:  497   Surface Temp:  7.1  Stratified: MIXED      Site Depth:   7.0
Lake Area:       5 Watershed Area:     26 WA/LA:     4.8 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  0.9   Turbidity:   1.9      Color:  110
Closed pH: 6.75       Equil. pH: 7.58             ANC:  218.0         DOC: 10.60
Closed DIC:  2.77   Equil. DIC:  2.65    Meas. Cond:  31.7   Cal. Cond:  30.8
Ca:  161.7          Mg:  118.5        Na:   47.0        K:   5.2       NH4:  4.4
SO4:   51.8       HCO3:  159.2        Cl:    5.4      NO3:   0.6         F:  1.2
Sum Cations:  336.9  Sum Anions:  218.3  Cations/Anions: 1.54   Tot. P:  16.0
Tot. Al:  108.0    Ext. Al:  17.0     Fe:  390.0      Mn:    0.0     SiO2:  4.16

ID: 2A2-035   Name: KARL LAKE                     State: MN  Date: 29OCT84
Sample Type: REGULAR          Latitude: 48-01'15"N    Longitude: 90-46'15"W
Elevation:  543   Surface Temp:  6.8  Stratified: MIXED      Site Depth:  11.3
Lake Area:      53 Watershed Area:   8260 WA/LA:   155.0 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  2.0   Turbidity:   1.3      Color:   47
Closed pH: 6.68       Equil. pH: 7.33             ANC:  146.5         DOC:  7.45
Closed DIC:  2.05   Equil. DIC:  1.42    Meas. Cond:  28.4   Cal. Cond:  28.3
Ca:  129.5          Mg:  101.2        Na:   38.7        K:   7.9       NH4:  1.7
SO4:   80.4       HCO3:  113.9        Cl:    9.9      NO3:   2.9         F:  1.5
Sum Cations:  279.2  Sum Anions:  208.5  Cations/Anions: 1.34   Tot. P:   8.0
Tot. Al:   47.0    Ext. Al:   9.0     Fe:  155.0      Mn:   20.0     SiO2:  5.84

ID: 2A2-036   Name: FLICKER LAKE                  State: MN  Date: 29OCT84
Sample Type: REGULAR          Latitude: 48-01'00"N    Longitude: 90-36'40"W
Elevation:  585   Surface Temp:  5.5  Stratified: MIXED      Site Depth:   6.7
Lake Area:      11 Watershed Area:    145 WA/LA:    13.3 Hydro Type: DRAINAGE
Residence Time:  0.79  Secchi Depth:  1.3   Turbidity:   1.3      Color:  105
Closed pH: 6.48       Equil. pH: 7.25             ANC:  111.0         DOC: 12.20
Closed DIC:  1.41   Equil. DIC:  0.89    Meas. Cond:  23.4   Cal. Cond:  21.3
Ca:  102.8          Mg:   92.1        Na:   33.5        K:   6.6       NH4:  5.5
SO4:   52.5       HCO3:   58.4        Cl:    6.2      NO3:   3.1         F:  1.4
Sum Cations:  241.0  Sum Anions:  121.5  Cations/Anions: 1.98   Tot. P:  17.0
Tot. Al:  146.0    Ext. Al:  48.0     Fe:  520.0      Mn:   10.0     SiO2:  6.18

ID: 2A2-039   Name: ZENITH LAKE                   State: MN  Date: 24OCT84
Sample Type: REGULAR          Latitude: 47-56'50"N    Longitude: 90-54'45"W
Elevation:  573   Surface Temp:  6.8  Stratified: MIXED      Site Depth:   4.9
Lake Area:       8 Watershed Area:    269 WA/LA:    32.4 Hydro Type: DRAINAGE
Residence Time:  0.26  Secchi Depth:  2.1   Turbidity:   0.9      Color:   29
Closed pH: 6.52       Equil. pH: 7.20             ANC:   75.0         DOC:  4.90
Closed DIC:  1.23   Equil. DIC:  0.82    Meas. Cond:  15.9   Cal. Cond:  15.5
Ca:   69.4          Mg:   46.1        Na:   27.4        K:   3.9       NH4:  3.3
SO4:   42.1       HCO3:   57.3        Cl:    5.6      NO3:   5.5         F:  3.2
Sum Cations:  150.5  Sum Anions:  113.8  Cations/Anions: 1.32   Tot. P:  13.0
Tot. Al:   34.0    Ext. Al:   5.0     Fe:   80.0      Mn:    0.0     SiO2:  0.96

ID: 2A2-040   Name: JAVA LAKE                     State: MN  Date: 23OCT84
Sample Type: REGULAR          Latitude: 47-56'00"N    Longitude: 90-52'30"W
Elevation:  550   Surface Temp:  7.1  Stratified: MIXED      Site Depth:   3.0
Lake Area:      21 Watershed Area:    256 WA/LA:    12.1 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  1.6   Turbidity:   1.2      Color:   49
Closed pH: 6.74       Equil. pH: 7.45             ANC:  141.0         DOC:  6.80
Closed DIC:  2.27   Equil. DIC:  1.61    Meas. Cond:  26.1   Cal. Cond:  26.3
Ca:  107.8          Mg:  121.7        Na:   30.0        K:   4.5       NH4:  2.8
SO4:   64.8       HCO3:  122.5        Cl:    7.3      NO3:   1.7         F:  1.2
Sum Cations:  267.0  Sum Anions:  197.6  Cations/Anions: 1.35   Tot. P:  10.0
Tot. Al:   60.0    Ext. Al:   8.0     Fe:  200.0      Mn:   10.0     SiO2:  2.60
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A2-043   Name: HORSESHOE LAKE                       State: MN  Date: 16OCT84
Sample Type: REGULAR            Latitude: 47'52'38"N    Longitude: 91-25'30"W
Elevation:  458   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   3.0
Lake Area:      88 Watershed Area:    1432 WA/LA:     16.3 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.4  Turbidity:   1.1     Color:   94
Closed pH: 6.75        Equil. pH: 7.47                 ANC:  122.0       DOC: 12.70
Closed DIC:  1.32  Equil. DIC:  0.93    Meas. Cond:  26.4   Cal. Cond:  31.8
Ca:  116.3          Mg:  107.8      Na:   40.9        K:   6.9       NH4:  0.0
SO4:   84.1       HCO3:   75.6      Cl:   84.3      NO3:   0.0         F:  1.0
Sum Cations:  272.0  Sum Anions:  245.1  Cations/Anions: 1.11   Tot. P:  10.0
Tot. Al:  117.0    Ext. Al:  21.0     Fe:  290.0     Mn:     0.0    SiO2:  4.46

ID: 2A2-044   Name: TROUT LAKE                           State: MN  Date: 17OCT84
Sample Type: REGULAR            Latitude: 47-57'30"N    Longitude: 92-18'45"W
Elevation:  425   Surface Temp: 12.1  Stratified: MIXED      Site Depth:  26.8
Lake Area:    2826 Watershed Area:   12872 WA/LA:      4.6 Hydro Type: DRAINAGE
Residence Time: 10.04  Secchi Depth:  2.9  Turbidity:   0.7     Color:   11
Closed pH: 6.98        Equil. pH: 7.46                 ANC:  180.0       DOC:  4.50
Closed DIC:  2.23  Equil. DIC:  1.87    Meas. Cond:  29.7   Cal. Cond:  30.8
Ca:  139.7          Mg:   77.3      Na:   40.9        K:  14.3       NH4:  0.0
SO4:   96.6       HCO3:  142.2      Cl:   11.6      NO3:   2.1         F:  2.4
Sum Cations:  272.3  Sum Anions:  255.0  Cations/Anions: 1.07   Tot. P:   1.0
Tot. Al:   28.0    Ext. Al:   3.0     Fe:    0.0     Mn:     0.0    SiO2:  0.53

ID: 2A2-045   Name: SAUNA LAKE                           State: MN  Date: 17OCT84
Sample Type: REGULAR            Latitude: 48-08'35"N    Longitude: 91-44'37"W
Elevation:  402   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   4.6
Lake Area:      14 Watershed Area:      73 WA/LA:      5.3 Hydro Type: DRAINAGE
Residence Time:  1.62  Secchi Depth:  1.6  Turbidity:   1.0     Color:   44
Closed pH: 6.58        Equil. pH: 7.31                 ANC:  102.0       DOC:  9.90
Closed DIC:  1.47  Equil. DIC:  0.93    Meas. Cond:  23.3   Cal. Cond:  27.3
Ca:   85.8          Mg:   87.2      Na:   37.4        K:  10.5       NH4:  0.0
SO4:  141.0       HCO3:   63.9      Cl:    8.2      NO3:   0.0         F:  2.4
Sum Cations:  221.2  Sum Anions:  215.4  Cations/Anions: 1.03   Tot. P:   0.0
Tot. Al:   59.0    Ext. Al:  14.0     Fe:  110.0     Mn:     0.0    SiO2:  0.37

ID: 2A2-046   Name: BURNTSIDE LAKE                       State: MN  Date: 16OCT84
Sample Type: REGULAR            Latitude: 47-55'45"N    Longitude: 92-00'00"W
Elevation:  418   Surface Temp: 12.1  Stratified: STRONG     Site Depth:  35.1
Lake Area:    2929 Watershed Area:   12934 WA/LA:      4.4 Hydro Type: DRAINAGE
Residence Time: 13.31  Secchi Depth:  5.0  Turbidity:   0.3     Color:   18
Closed pH: 7.04        Equil. pH: 7.54                 ANC:  165.0       DOC:  4.60
Closed DIC:  2.10  Equil. DIC:  1.71    Meas. Cond:  31.0   Cal. Cond:  30.9
Ca:  147.7          Mg:   81.4      Na:   42.6        K:  13.8       NH4:  0.0
SO4:   90.4       HCO3:  131.3      Cl:   18.6      NO3:   0.0         F:  2.5
Sum Cations:  285.7  Sum Anions:  243.0  Cations/Anions: 1.18   Tot. P:   6.0
Tot. Al:   13.0    Ext. Al:   4.0     Fe:   10.0     Mn:     0.0    SiO2:  1.59

ID: 2A2-048   Name: LOWER TROUT LAKE                     State: MN  Date: 29OCT84
Sample Type: REGULAR            Latitude: 47-56'33"N    Longitude: 90-27'07"W
Elevation:  501   Surface Temp:  3.4  Stratified: MIXED      Site Depth:   1.5
Lake Area:      53 Watershed Area:   10176 WA/LA:    193.8 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.3  Turbidity:   2.1     Color:   63
Closed pH: 6.96        Equil. pH: 7.43                 ANC:  175.0       DOC: 10.00
Closed DIC:  2.17  Equil. DIC:  1.76    Meas. Cond:  37.6   Cal. Cond:  37.6
Ca:  179.1          Mg:  137.4      Na:   51.3        K:  11.0       NH4:  0.6
SO4:  107.6       HCO3:  128.5      Cl:   13.5      NO3:   8.9         F:  4.0
Sum Cations:  379.5  Sum Anions:  262.7  Cations/Anions: 1.44   Tot. P:  10.0
Tot. Al:   56.0    Ext. Al:  18.0     Fe:  150.0     Mn:     0.0    SiO2:  7.18
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A2-050   Name: MCDIVITT LAKE                      State: MN  Date: 21OCT84
Sample Type: REGULAR             Latitude: 48-30'53"N   Longitude: 92-44'30"W
Elevation:  369   Surface Temp:  8.7  Stratified: MIXED      Site Depth:   5.5
Lake Area:      13 Watershed Area:      83 WA/LA:      6.5 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  1.4  Turbidity:   0.7      Color:   75
Closed pH: 6.54        Equil. pH: 7.23              ANC:  116.4        DOC: 14.90
Closed DIC:  1.45   Equil. DIC:  0.83    Meas. Cond:  17.9   Cal. Cond:  18.2
Ca:   90.3         Mg:    63.3       Na:    33.9        K:  14.8       NH4:  1.7
SO4:   29.8      HCO3:    80.7       Cl:     4.5      NO3:   0.7         F:  1.5
Sum Cations:  204.3  Sum Anions:  117.2  Cations/Anions: 1.74   Tot. P:  19.0
Tot. Al:   57.0    Ext. Al:  14.0    Fe:  200.0      Mn:    10.0    SiO2:  0.74

ID: 2A2-052   Name: BALD EAGLE LAKE                    State: MN  Date: 16OCT84
Sample Type: REGULAR             Latitude: 47-49'55"N   Longitude: 91-33'15"W
Elevation:  443   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   4.6
Lake Area:     499 Watershed Area:  92243 WA/LA:    184.8 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  1.1  Turbidity:   2.5      Color:   76
Closed pH: 7.68        Equil. pH: 8.23              ANC:  665.0        DOC:  9.10
Closed DIC:  7.66   Equil. DIC:  7.13    Meas. Cond:  73.4   Cal. Cond:  76.8
Ca:  385.2         Mg:   319.2       Na:    75.7        K:   9.5       NH4:  0.0
SO4:   60.4      HCO3:   583.1       Cl:    16.6      NO3:   0.0         F:  5.2
Sum Cations:  789.6  Sum Anions:  668.0  Cations/Anions: 1.18   Tot. P:  20.0
Tot. Al:   88.0    Ext. Al:   5.0    Fe:  370.0      Mn:     0.0    SiO2: 10.07

ID: 2A2-053   Name: WHIZ LAKE                          State: MN  Date: 23OCT84
Sample Type: REGULAR             Latitude: 47-58'00"N   Longitude: 91-10'15"W
Elevation:  475   Surface Temp:  7.4  Stratified: MIXED      Site Depth:   5.5
Lake Area:       9 Watershed Area:   3149 WA/LA:    353.8 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.0  Turbidity:   1.8      Color:   95
Closed pH: 6.74        Equil. pH: 7.65              ANC:  203.5        DOC: 11.10
Closed DIC:  3.00   Equil. DIC:  2.01    Meas. Cond:  31.0   Cal. Cond:  31.6
Ca:  164.9         Mg:   122.6       Na:    44.8        K:   6.1       NH4:  2.5
SO4:   45.3      HCO3:   166.7       Cl:    12.6      NO3:   4.3         F:  1.0
Sum Cations:  341.1  Sum Anions:  230.0  Cations/Anions: 1.48   Tot. P:  16.0
Tot. Al:   70.0    Ext. Al:  16.5    Fe:  175.0      Mn:     0.0    SiO2:  3.59

ID: 2A2-054   Name: GREEN LAKE                         State: MN  Date: 24OCT84
Sample Type: REGULAR             Latitude: 48-04'12"N   Longitude: 90-54'00"W
Elevation:  530   Surface Temp:  8.5  Stratified: MIXED      Site Depth:  18.6
Lake Area:      15 Watershed Area:      67 WA/LA:      4.5 Hydro Type: DRAINAGE
Residence Time:  5.14  Secchi Depth:  4.1  Turbidity:   0.7      Color:   10
Closed pH: 6.99        Equil. pH: 7.57              ANC:  184.0        DOC:  3.70
Closed DIC:  2.42   Equil. DIC:  2.10    Meas. Cond:  25.0   Cal. Cond:  25.4
Ca:  103.8         Mg:   106.1       Na:    31.8        K:   4.8       NH4:  0.6
SO4:   44.8      HCO3:   166.8       Cl:     5.6      NO3:   0.6         F:  0.8
Sum Cations:  247.1  Sum Anions:  218.8  Cations/Anions: 1.13   Tot. P:  11.0
Tot. Al:   24.0    Ext. Al:   1.0    Fe:   20.0      Mn:     0.0    SiO2:  1.09

ID: 2A2-055   Name: BONITA LAKE                        State: MN  Date: 24OCT84
Sample Type: REGULAR             Latitude: 48-00'37"N   Longitude: 90-59'30"W
Elevation:  512   Surface Temp:  6.7  Stratified: MIXED      Site Depth:   4.0
Lake Area:       5 Watershed Area:      54 WA/LA:     10.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.4  Turbidity:   1.8      Color:   74
Closed pH: 6.94        Equil. pH: 7.62              ANC:  207.5        DOC: 10.45
Closed DIC:  2.25   Equil. DIC:  1.84    Meas. Cond:  29.7   Cal. Cond:  28.6
Ca:  162.2         Mg:    98.7       Na:    44.4        K:   7.2       NH4:  1.9
SO4:   49.6      HCO3:   139.6       Cl:     5.9      NO3:   0.8         F:  1.3
Sum Cations:  314.6  Sum Anions:  197.2  Cations/Anions: 1.60   Tot. P:  20.0
Tot. Al:   73.5    Ext. Al:  12.5    Fe:  170.0      Mn:     0.0    SiO2:  4.30
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A2-057   Name: MALBERG LAKE                             State: MN  Date: 23OCT84
Sample Type: REGULAR              Latitude: 47-57'03"N    Longitude: 91-08'07"W
Elevation:  472   Surface Temp:  8.5  Stratified: MIXED       Site Depth:    7.3
Lake Area:     165 Watershed Area:   8511 WA/LA:     51.6 Hydro Type: DRAINAGE
Residence Time:  0.25  Secchi Depth:  1.9   Turbidity:   1.6      Color:    39
Closed pH: 6.96        Equil. pH: 7.53              ANC:  162.0          DOC:  6.90
Closed DIC:  1.97   Equil. DIC:  1.63    Meas. Cond:  25.6   Cal. Cond:  24.4
Ca:  134.7           Mg:    74.9        Na:    37.4          K:   7.2      NH4:   1.7
SO4:    47.5       HCO3:  119.6        Cl:     7.3        NO3:   0.3         F:   3.2
Sum Cations:  256.0  Sum Anions:  178.0  Cations/Anions: 1.44   Tot. P:  10.0
Tot. Al:    28.0     Ext. Al:    2.0    Fe:   180.0      Mn:      0.0    SiO2:  4.05
```

```
ID: 2A2-058   Name: MEAT LAKE                                State: MN  Date: 16OCT84
Sample Type: REGULAR              Latitude: 47-55'07"N    Longitude: 92-05'48"W
Elevation:  456   Surface Temp: 12.1  Stratified: WEAK        Site Depth:    6.7
Lake Area:       8 Watershed Area:     60 WA/LA:      7.2 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  1.9   Turbidity:   0.9      Color:    41
Closed pH: 6.74        Equil. pH: 7.35              ANC:   95.0          DOC:  7.60
Closed DIC:  1.30   Equil. DIC:  1.02    Meas. Cond:  19.2   Cal. Cond:  17.6
Ca:   70.4           Mg:    50.2        Na:    41.8          K:  14.6      NH4:   0.0
SO4:    47.3       HCO3:   67.3        Cl:     7.1        NO3:   0.0         F:   2.7
Sum Cations:  177.1  Sum Anions:  124.4  Cations/Anions: 1.42   Tot. P:  11.0
Tot. Al:    41.0     Ext. Al:   16.0    Fe:   190.0      Mn:      0.0    SiO2:  1.26
```

```
ID: 2A2-059   Name: JORGENS LAKE                             State: MN  Date: 21OCT84
Sample Type: REGULAR              Latitude: 48-29'04"N    Longitude: 92-50'45"W
Elevation:  366   Surface Temp:  9.2  Stratified: MIXED       Site Depth:    6.4
Lake Area:      26 Watershed Area:    171 WA/LA:      6.6 Hydro Type: RESERVOIR
Residence Time:  2.04  Secchi Depth:  2.4   Turbidity:   0.6      Color:    39
Closed pH: 6.83        Equil. pH: 7.43              ANC:  158.6          DOC: 10.70
Closed DIC:  1.90   Equil. DIC:  1.25    Meas. Cond:  22.3   Cal. Cond:  23.1
Ca:  118.3           Mg:    77.3        Na:    39.6          K:  15.3      NH4:   0.0
SO4:    40.0       HCO3:  115.6        Cl:     5.1        NO3:   0.3         F:   1.5
Sum Cations:  250.6  Sum Anions:  162.6  Cations/Anions: 1.54   Tot. P:   9.0
Tot. Al:    17.0     Ext. Al:    5.0    Fe:    10.0      Mn:      0.0    SiO2:  0.90
```

```
ID: 2A2-061   Name: TURTLE LAKE                              State: MN  Date: 16OCT84
Sample Type: REGULAR              Latitude: 47-51'15"N    Longitude: 91-33'08"W
Elevation:  457   Surface Temp: 12.3  Stratified: MIXED       Site Depth:    2.4
Lake Area:     138 Watershed Area:    401 WA/LA:      2.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.4   Turbidity:   1.2      Color:    32
Closed pH: 7.08        Equil. pH: 7.58              ANC:  165.0          DOC:  9.80
Closed DIC:  1.85   Equil. DIC:  1.57    Meas. Cond:  25.2   Cal. Cond:  25.7
Ca:  118.5           Mg:    94.6        Na:    28.9          K:   9.2      NH4:   0.0
SO4:    62.5       HCO3:  119.8        Cl:    13.4        NO3:   0.0         F:   1.2
Sum Cations:  251.4  Sum Anions:  197.0  Cations/Anions: 1.28   Tot. P:  31.5
Tot. Al:    25.5     Ext. Al:    3.5    Fe:    20.0      Mn:      0.0    SiO2:  1.79
```

```
ID: 2A2-062   Name: RAGGED LAKE                              State: MN  Date: 29OCT84
Sample Type: REGULAR              Latitude: 48-00'32"N    Longitude: 90-51'30"W
Elevation:  573   Surface Temp:  5.5  Stratified: MIXED       Site Depth:    6.7
Lake Area:      20 Watershed Area:     98 WA/LA:      5.0 Hydro Type: DRAINAGE
Residence Time:  1.73  Secchi Depth:  2.2   Turbidity:   1.3      Color:    16
Closed pH: 7.12        Equil. pH: 7.50              ANC:  199.0          DOC:  6.00
Closed DIC:  2.58   Equil. DIC:  2.08    Meas. Cond:  30.4   Cal. Cond:  30.5
Ca:  154.2           Mg:   100.4        Na:    34.4          K:   7.2      NH4:   2.8
SO4:    70.6       HCO3:  160.0        Cl:     7.3        NO3:   0.6         F:   2.7
Sum Cations:  298.9  Sum Anions:  241.3  Cations/Anions: 1.24   Tot. P:   9.0
Tot. Al:    10.0     Ext. Al:    2.0    Fe:    10.0      Mn:      0.0    SiO2:  2.41
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A3-002   Name: COOK COUNTY LAKE                    State: MN  Date: 23OCT84
Sample Type: REGULAR            Latitude: 48-06'05"N    Longitude: 91-02'05"W
Elevation:  472   Surface Temp:  8.8  Stratified: MIXED     Site Depth:  11.0
Lake Area:      18 Watershed Area:      176 WA/LA:      9.9 Hydro Type: DRAINAGE
Residence Time:  1.67  Secchi Depth:  1.6   Turbidity:   1.3      Color:    43
Closed pH: 7.43        Equil. pH: 8.20             ANC:  646.0        DOC:  9.60
Closed DIC:  7.54   Equil. DIC:  6.85     Meas. Cond:  72.4   Cal. Cond:  74.4
Ca:  602.8          Mg:    93.0        Na:    30.0       K:  13.5       NH4:   1.7
SO4:   64.1       HCO3:  560.4        Cl:     9.0      NO3:   0.9         F:   1.2
Sum Cations:  741.0  Sum Anions:  637.5  Cations/Anions: 1.16   Tot. P:  16.0
Tot. Al:   18.0    Ext. Al:   2.0    Fe:    20.0      Mn:    0.0    SiO2:  1.77
```

```
ID: 2A3-004   Name: WARD LAKE                           State: MN  Date: 20OCT84
Sample Type: REGULAR            Latitude: 47-42'55"N    Longitude: 90-37'59"W
Elevation:  449   Surface Temp:  7.7  Stratified: MIXED     Site Depth:   2.4
Lake Area:      16 Watershed Area:      104 WA/LA:      6.7 Hydro Type: DRAINAGE
Residence Time:  0.38  Secchi Depth:  1.0   Turbidity:   1.8      Color:    41
Closed pH: 7.51        Equil. pH: 7.98             ANC:  472.3        DOC: 14.35
Closed DIC:  5.31   Equil. DIC:  5.03     Meas. Cond:  55.1   Cal. Cond:  63.1
Ca:  337.6          Mg:   170.7        Na:   107.0       K:   8.7       NH4:   2.5
SO4:   94.2       HCO3:  426.5        Cl:     7.3      NO3:   3.5         F:   5.7
Sum Cations:  626.4  Sum Anions:  538.7  Cations/Anions: 1.16   Tot. P:  30.0
Tot. Al:   58.5    Ext. Al:   7.5    Fe:    40.0      Mn:    0.0    SiO2: 10.19
```

```
ID: 2A3-005   Name: FRANKLIN LAKE                       State: MN  Date: 21OCT84
Sample Type: REG/SPC/LTM/       Latitude: 48-18'00"N    Longitude: 92-37'00"W
Elevation:  366   Surface Temp:  9.0  Stratified: MIXED     Site Depth:   3.0
Lake Area:      61 Watershed Area:      197 WA/LA:      3.3 Hydro Type: DRAINAGE
Residence Time:  1.35  Secchi Depth:  2.2   Turbidity:   0.9      Color:    35
Closed pH: 7.40        Equil. pH: 8.00             ANC:  477.9        DOC: 17.70
Closed DIC:  5.57   Equil. DIC:  4.84     Meas. Cond:  52.4   Cal. Cond:  55.7
Ca:  325.8          Mg:   192.5        Na:    42.2       K:  16.6       NH4:   1.7
SO4:   47.5       HCO3:  403.4        Cl:     5.6      NO3:   3.4         F:   1.7
Sum Cations:  578.9  Sum Anions:  462.8  Cations/Anions: 1.25   Tot. P:  17.0
Tot. Al:   10.0    Ext. Al:   4.0    Fe:    30.0      Mn:    0.0    SiO2:  1.36
```

```
ID: 2A3-006   Name: (NO NAME)                           State: MN  Date: 24OCT84
Sample Type: REGULAR            Latitude: 48-09'00"N    Longitude: 90-56'40"W
Elevation:  457   Surface Temp:  5.9  Stratified: MIXED     Site Depth:   3.9
Lake Area:       4 Watershed Area:       57 WA/LA:     14.3 Hydro Type: DRAINAGE
Residence Time:  0.44  Secchi Depth:  1.1   Turbidity:   1.5      Color:    53
Closed pH: 7.49        Equil. pH: 8.18             ANC:  604.6        DOC: 13.10
Closed DIC:  6.33   Equil. DIC:  6.25     Meas. Cond:  70.0   Cal. Cond:  73.2
Ca:  418.2          Mg:   227.9        Na:    91.3       K:  12.6       NH4:   4.4
SO4:   87.9       HCO3:  501.3        Cl:     9.3      NO3:   0.0         F:   4.1
Sum Cations:  754.4  Sum Anions:  604.0  Cations/Anions: 1.25   Tot. P:  14.0
Tot. Al:   70.0    Ext. Al:  18.0    Fe:    40.0      Mn:    0.0    SiO2:  2.65
```

```
ID: 2A3-007   Name: ELUSION LAKE                        State: MN  Date: 24OCT84
Sample Type: REGULAR            Latitude: 48-05'24"N    Longitude: 90-55'15"W
Elevation:  523   Surface Temp:  8.0  Stratified: MIXED     Site Depth:  17.7
Lake Area:       7 Watershed Area:       36 WA/LA:      5.0 Hydro Type: DRAINAGE
Residence Time:  4.54  Secchi Depth:  3.8   Turbidity:   0.5      Color:    21
Closed pH: 6.94        Equil. pH: 7.50             ANC:  239.0        DOC:  5.00
Closed DIC:  3.11   Equil. DIC:  2.24     Meas. Cond:  34.1   Cal. Cond:  33.2
Ca:  213.6          Mg:    71.6        Na:    37.0       K:   8.8       NH4:   0.6
SO4:   71.2       HCO3:  175.7        Cl:     7.3      NO3:   0.0         F:   0.9
Sum Cations:  331.6  Sum Anions:  255.4  Cations/Anions: 1.30   Tot. P:  10.0
Tot. Al:   36.0    Ext. Al:   3.0    Fe:     0.0      Mn:    0.0    SiO2:  1.26
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A3-008   Name: TRIDENT LAKE                          State: MN  Date: 23OCT84
Sample Type: REGULAR              Latitude: 48-03'10"N    Longitude: 91-21'20"W
Elevation:  414   Surface Temp:  8.0  Stratified: MIXED     Site Depth:   3.7
Lake Area:      32 Watershed Area:     249 WA/LA:      7.8 Hydro Type: DRAINAGE
Residence Time:  0.68  Secchi Depth:  1.8   Turbidity:   1.3      Color:    35
Closed pH: 7.44         Equil. pH: 8.01              ANC:  457.0         DOC:  9.00
Closed DIC:  5.22   Equil. DIC:  4.88    Meas. Cond:  55.9   Cal. Cond:  56.1
Ca:  444.6            Mg:   79.8        Na:    41.3          K:   7.1       NH4:  0.6
SO4:   67.9         HCO3:  371.0        Cl:     8.2        NO3:   0.7         F:  1.9
Sum Cations:  573.5  Sum Anions:  450.3  Cations/Anions: 1.27   Tot. P:  24.0
Tot. Al:    24.0     Ext. Al:    1.0     Fe:    20.0       Mn:     0.0    SiO2:  2.31

ID: 2A3-009   Name: CARIBOU LAKE                          State: MN  Date: 29OCT84
Sample Type: REGULAR              Latitude: 48-04'15"N    Longitude: 90-18'45"W
Elevation:  480   Surface Temp:  7.7  Stratified: MIXED     Site Depth:  14.9
Lake Area:     187 Watershed Area:    1930 WA/LA:     10.3 Hydro Type: DRAINAGE
Residence Time:  2.18  Secchi Depth:  2.5   Turbidity:   1.5      Color:    21
Closed pH: 7.41         Equil. pH: 7.86              ANC:  355.0         DOC:  4.80
Closed DIC:  3.92   Equil. DIC:  3.71    Meas. Cond:  48.6   Cal. Cond:  49.1
Ca:  227.5            Mg:  179.3        Na:    52.2          K:  11.8       NH4:  0.6
SO4:  101.6         HCO3:  291.1        Cl:    15.2        NO3:   0.9         F:  2.5
Sum Cations:  471.4  Sum Anions:  412.1  Cations/Anions: 1.14   Tot. P:  18.0
Tot. Al:    17.0     Ext. Al:    4.0     Fe:    20.0       Mn:     0.0    SiO2:  4.89

ID: 2A3-010   Name: HARMONY LAKE                          State: MN  Date: 23OCT84
Sample Type: REGULAR              Latitude: 48-00'10"N    Longitude: 91-13'07"W
Elevation:  466   Surface Temp:  8.5  Stratified: MIXED     Site Depth:  16.8
Lake Area:      10 Watershed Area:      39 WA/LA:      3.9 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  3.4   Turbidity:   0.6      Color:    18
Closed pH: 7.02         Equil. pH: 7.92              ANC:  260.0         DOC:  6.40
Closed DIC:  3.45   Equil. DIC:  3.06    Meas. Cond:  38.6   Cal. Cond:  39.3
Ca:  148.7            Mg:  198.2        Na:    37.4          K:   9.2       NH4:  0.0
SO4:   81.2         HCO3:  230.0        Cl:     7.6        NO3:   0.0         F:  1.2
Sum Cations:  393.6  Sum Anions:  320.3  Cations/Anions: 1.23   Tot. P:  14.0
Tot. Al:    15.0     Ext. Al:    2.0     Fe:    40.0       Mn:     0.0    SiO2:  1.43

ID: 2A3-011   Name: TAMARACK LAKE                         State: MN  Date: 16OCT84
Sample Type: REGULAR              Latitude: 47-53'30"N    Longitude: 92-06'30"W
Elevation:  436   Surface Temp: 12.2  Stratified: MIXED     Site Depth:   6.4
Lake Area:      26 Watershed Area:     386 WA/LA:     14.9 Hydro Type: DRAINAGE
Residence Time:  1.16  Secchi Depth:  1.8   Turbidity:   1.8      Color:    56
Closed pH: 7.29         Equil. pH: 7.93              ANC:  396.0         DOC:  8.50
Closed DIC:  4.64   Equil. DIC:  4.06    Meas. Cond:  48.0   Cal. Cond:  48.5
Ca:  346.8            Mg:   89.7        Na:    40.9          K:  12.3       NH4:  0.0
SO4:   56.6         HCO3:  335.3        Cl:     6.5        NO3:   0.5         F:  2.8
Sum Cations:  489.7  Sum Anions:  402.6  Cations/Anions: 1.22   Tot. P:   7.0
Tot. Al:    31.0     Ext. Al:    3.0     Fe:   210.0       Mn:     0.0    SiO2:  4.70

ID: 2A3-012   Name: WOLF LAKE                             State: MN  Date: 16OCT84
Sample Type: REGULAR              Latitude: 47-53'00"N    Longitude: 92-01'30"W
Elevation:  426   Surface Temp: 12.2  Stratified: MIXED     Site Depth:   6.4
Lake Area:     111 Watershed Area:    1712 WA/LA:     15.4 Hydro Type: DRAINAGE
Residence Time:  1.13  Secchi Depth:  2.8   Turbidity:   1.1      Color:    41
Closed pH: 7.66         Equil. pH: 8.19              ANC:  811.0         DOC:  9.20
Closed DIC:  9.15   Equil. DIC:  8.45    Meas. Cond: 101.0   Cal. Cond: 106.9
Ca:  688.1            Mg:  225.4        Na:    98.3          K:  10.7       NH4:  0.0
SO4:  116.8         HCO3:  705.9        Cl:    92.5        NO3:   0.6         F:  3.1
Sum Cations: 1022.6  Sum Anions:  922.3  Cations/Anions: 1.11   Tot. P:   6.0
Tot. Al:     7.0     Ext. Al:    3.0     Fe:    30.0       Mn:     0.0    SiO2:  8.17
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A3-013   Name: PURVIS LAKE                     State: MN  Date: 22OCT84
Sample Type: REGULAR           Latitude: 47-49'30"N    Longitude: 92-00'30"W
Elevation:  456   Surface Temp:  8.8  Stratified: MIXED      Site Depth:  12.2
Lake Area:      21 Watershed Area:    148 WA/LA:      7.2 Hydro Type: DRAINAGE
Residence Time:  3.59  Secchi Depth:  2.3   Turbidity:   1.8      Color:    35
Closed pH: 7.25       Equil. pH: 8.08             ANC:  676.0          DOC:  6.50
Closed DIC:  8.33   Equil. DIC:  7.41    Meas. Cond:  73.8   Cal. Cond:  76.9
Ca:  484.8          Mg:  223.3       Na:    51.3        K:  15.5       NH4:  0.6
SO4:   54.3       HCO3:  609.6       Cl:     9.3      NO3:   0.4          F:  2.1
Sum Cations:  775.5  Sum Anions:  677.8  Cations/Anions: 1.14   Tot. P:   7.0
Tot. Al:     9.0    Ext. Al:    0.0     Fe:  110.0      Mn:  110.0    SiO2:  9.85

ID: 2A3-015   Name: SOCK LAKE                       State: MN  Date: 08OCT84
Sample Type: REGULAR           Latitude: 47-44'50"N    Longitude: 92-00'40"W
Elevation:  447   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   5.8
Lake Area:      10 Watershed Area:     47 WA/LA:      4.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.1   Turbidity:   0.6      Color:    17
Closed pH: 7.54       Equil. pH: 8.01             ANC:  391.5          DOC:  4.40
Closed DIC:  4.44   Equil. DIC:  4.27    Meas. Cond:  46.1   Cal. Cond:  48.4
Ca:  172.4          Mg:  232.0       Na:    56.8        K:  12.0       NH4:  0.6
SO4:   39.1       HCO3:  358.4       Cl:    35.7      NO3:   0.0          F:  3.1
Sum Cations:  473.7  Sum Anions:  438.2  Cations/Anions: 1.08   Tot. P:   7.0
Tot. Al:     5.0    Ext. Al:    1.5     Fe:   10.0      Mn:    0.0    SiO2:  1.27

ID: 2A3-016   Name: JOHNSON LAKE                    State: MN  Date: 07OCT84
Sample Type: REGULAR           Latitude: 47-42'15"N    Longitude: 93-05'50"W
Elevation:  423   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   3.0
Lake Area:       6 Watershed Area:    189 WA/LA:     33.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.4   Turbidity:   1.0      Color:   200
Closed pH: 6.23       Equil. pH: 6.72             ANC:   73.0          DOC: 22.50
Closed DIC:  0.96   Equil. DIC:  0.41    Meas. Cond:  25.8   Cal. Cond:  22.2
Ca:  140.2          Mg:   95.4       Na:    43.1        K:  11.5       NH4:  3.3
SO4:   37.9       HCO3:   31.8       Cl:     5.1      NO3:   4.9          F:  2.8
Sum Cations:  294.1  Sum Anions:   82.5  Cations/Anions: 3.57   Tot. P:  30.0
Tot. Al:   200.0    Ext. Al:  119.0     Fe:  420.0      Mn:    0.0    SiO2:  2.29

ID: 2A3-020   Name: JAMMER LAKE                     State: MN  Date: 07OCT84
Sample Type: REGULAR           Latitude: 47-39'25"N    Longitude: 92-36'30"W
Elevation:  450   Surface Temp: 11.0  Stratified: MIXED      Site Depth:   8.5
Lake Area:       7 Watershed Area:     47 WA/LA:      6.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.8   Turbidity:   0.6      Color:    25
Closed pH: 6.89       Equil. pH: 7.64             ANC:  198.0          DOC:  3.90
Closed DIC:  2.52   Equil. DIC:  2.37    Meas. Cond:  82.1   Cal. Cond:  81.8
Ca:  183.6          Mg:  148.1       Na:   330.6        K:  31.7       NH4:  6.7
SO4:   42.1       HCO3:  188.2       Cl:   413.3      NO3:   1.8          F:  4.1
Sum Cations:  700.7  Sum Anions:  649.7  Cations/Anions: 1.08   Tot. P:   4.0
Tot. Al:     6.0    Ext. Al:    3.0     Fe:  170.0      Mn:   10.0    SiO2:  0.32

ID: 2A3-024   Name: BLUEBILL LAKE                   State: MN  Date: 20OCT84
Sample Type: REGULAR           Latitude: 47-35'53"N    Longitude: 91-12'16"W
Elevation:  558   Surface Temp:  6.4  Stratified: MIXED      Site Depth:   0.9
Lake Area:      17 Watershed Area:    461 WA/LA:     27.8 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.6   Turbidity:   3.9      Color:    89
Closed pH: 7.36       Equil. pH: 8.02             ANC:  536.2          DOC: 18.50
Closed DIC:  5.90   Equil. DIC:  5.42    Meas. Cond:  60.5   Cal. Cond:  71.2
Ca:  393.7          Mg:  215.5       Na:    74.7        K:  12.3       NH4:  5.5
SO4:   79.5       HCO3:  467.6       Cl:    37.0      NO3:   9.5          F:  8.6
Sum Cations:  701.8  Sum Anions:  603.7  Cations/Anions: 1.16   Tot. P:  27.0
Tot. Al:    84.0    Ext. Al:   10.0     Fe:  110.0      Mn:    0.0    SiO2: 10.32
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A3-032   Name: HARVEY LAKE                     State: MN  Date: 07OCT84
Sample Type: REGULAR           Latitude: 47-23'30"N    Longitude: 92-31'20"W
Elevation:  414   Surface Temp: 10.7  Stratified: MIXED     Site Depth:   2.4
Lake Area:      10 Watershed Area:     140 WA/LA:     14.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.9  Turbidity:   1.4      Color:    99
Closed pH: 5.93       Equil. pH: 6.05              ANC:   43.0         DOC: 12.50
Closed DIC:  0.67   Equil. DIC:  0.35    Meas. Cond:  18.5   Cal. Cond:  16.5
Ca:   67.9           Mg:    50.2        Na:    20.7        K:  26.6       NH4:   1.4
SO4:    51.6       HCO3:    11.3       Cl:    17.3        NO3:   1.8          F:   3.2
Sum Cations:  168.0  Sum Anions:   85.2  Cations/Anions: 1.97   Tot. P:  13.5
Tot. Al:  158.0    Ext. Al:  44.5     Fe:  395.0      Mn:    20.0     SiO2:  0.00

ID: 2A3-034   Name: MOOSE LAKE                      State: MN  Date: 21OCT84
Sample Type: REGULAR           Latitude: 48-18'50"N    Longitude: 92-41'15"W
Elevation:  361   Surface Temp:  8.3  Stratified: MIXED     Site Depth:   2.1
Lake Area:      86 Watershed Area:     749 WA/LA:      8.7 Hydro Type: DRAINAGE
Residence Time:  0.56  Secchi Depth:  1.9  Turbidity:   0.9      Color:    40
Closed pH: 7.86       Equil. pH: 8.30              ANC:  937.6         DOC: 21.40
Closed DIC: 10.70   Equil. DIC:  9.74    Meas. Cond:  93.2   Cal. Cond: 101.0
Ca:  555.9           Mg:   371.8        Na:    55.7        K:  22.2       NH4:   0.0
SO4:    46.8       HCO3:   877.7       Cl:     6.5        NO3:   0.0          F:   2.5
Sum Cations: 1005.6  Sum Anions:  939.0  Cations/Anions: 1.07   Tot. P:  21.0
Tot. Al:    5.0    Ext. Al:   2.0     Fe:   30.0      Mn:     0.0     SiO2:  0.67

ID: 2A3-035   Name: SEA GULL LAKE                   State: MN  Date: 24OCT84
Sample Type: REGULAR           Latitude: 48-07'30"N    Longitude: 90-56'15"W
Elevation:  442   Surface Temp:  8.8  Stratified: MIXED     Site Depth:  28.6
Lake Area:    1701 Watershed Area:   18938 WA/LA:     11.1 Hydro Type: DRAINAGE
Residence Time:  3.94  Secchi Depth:  3.4  Turbidity:   0.4      Color:    25
Closed pH: 7.05       Equil. pH: 7.81              ANC:  283.6         DOC:  5.60
Closed DIC:  3.42   Equil. DIC:  3.03    Meas. Cond:  40.2   Cal. Cond:  41.1
Ca:  235.5           Mg:   120.9        Na:    38.7        K:   8.1       NH4:   0.6
SO4:    79.1       HCO3:   245.8       Cl:     9.0        NO3:   0.9          F:   1.5
Sum Cations:  403.8  Sum Anions:  336.8  Cations/Anions: 1.20   Tot. P:   6.0
Tot. Al:   22.0    Ext. Al:   3.0     Fe:  200.0      Mn:     0.0     SiO2:  3.84

ID: 2A3-036   Name: OGISHKEMUNCIE LAKE              State: MN  Date: 23OCT84
Sample Type: REGULAR           Latitude: 48-05'15"N    Longitude: 91-04'30"W
Elevation:  452   Surface Temp:  9.5  Stratified: MIXED     Site Depth:  18.6
Lake Area:     309 Watershed Area:   11948 WA/LA:     38.7 Hydro Type: DRAINAGE
Residence Time:  0.83  Secchi Depth:  3.4  Turbidity:   0.4      Color:    26
Closed pH: 6.92       Equil. pH: 7.76              ANC:  232.0         DOC:  5.60
Closed DIC:  2.94   Equil. DIC:  2.34    Meas. Cond:  34.5   Cal. Cond:  34.9
Ca:  178.6           Mg:   115.2        Na:    39.1        K:   7.8       NH4:   1.7
SO4:    74.5       HCO3:   193.1       Cl:     7.9        NO3:   3.7          F:   1.3
Sum Cations:  342.5  Sum Anions:  280.9  Cations/Anions: 1.22   Tot. P:   0.0
Tot. Al:   20.0    Ext. Al:   3.0     Fe:   40.0      Mn:     0.0     SiO2:  4.80

ID: 2A3-037   Name: WEST PIKE LAKE                  State: MN  Date: 29OCT84
Sample Type: REGULAR           Latitude: 48-05'15"N    Longitude: 90-12'15"W
Elevation:  474   Surface Temp:  8.6  Stratified: MIXED     Site Depth:  28.9
Lake Area:     309 Watershed Area:    3541 WA/LA:     11.4 Hydro Type: DRAINAGE
Residence Time:  3.87  Secchi Depth:  5.1  Turbidity:   0.4      Color:     9
Closed pH: 7.23       Equil. pH: 7.54              ANC:  272.0         DOC:  2.80
Closed DIC:  3.27   Equil. DIC:  2.93    Meas. Cond:  43.6   Cal. Cond:  47.6
Ca:  198.6           Mg:   156.3        Na:    53.1        K:  10.7       NH4:   0.6
SO4:   128.3       HCO3:   221.4       Cl:    48.5        NO3:   0.5          F:   2.2
Sum Cations:  419.3  Sum Anions:  401.2  Cations/Anions: 1.05   Tot. P:  17.0
Tot. Al:   10.0    Ext. Al:   1.0     Fe:   20.0      Mn:     0.0     SiO2:  7.03
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A3-040   Name: BEAR ISLAND LAKE
Sample Type: REGULAR                                State: MN  Date: 08OCT84
Elevation:  432   Surface Temp: 12.0  Latitude: 47-46'15"N   Longitude: 92-00'00"W
Lake Area:     932 Watershed Area:  7438 WA/LA:   Stratified: MIXED  Site Depth:  18.0
Residence Time:  4.98  Secchi Depth:  2.1    8.0 Hydro Type: DRAINAGE
Closed pH: 7.06         Equil. pH: 7.78   Turbidity:   1.3      Color:    63
Closed DIC:  3.88   Equil. DIC:  3.42           ANC:  352.0        DOC: 10.50
Ca:  267.5          Mg:  167.0      Meas. Cond:  48.2   Cal. Cond:  48.1
SO4:   68.3       HCO3:  283.5       Na:   55.2       K:  12.8       NH4:   0.6
Sum Cations:  503.1  Sum Anions:  372.4   Cl:   15.5   NO3:   0.1      F:   3.9
Tot. Al:   22.0   Ext. Al:   2.0   Fe:  120.0  Cations/Anions: 1.35  Tot. P:  15.0
                                            Mn:    0.0     SiO2:  5.41

ID: 2A3-041   Name: PLACID LAKE
Sample Type: REGULAR                                State: MN  Date: 17OCT84
Elevation:  466   Surface Temp:  9.5  Latitude: 47-47'45"N   Longitude: 91-14'58"W
Lake Area:       7 Watershed Area:   129 WA/LA:   Stratified: MIXED  Site Depth:   0.9
Residence Time:  0.08  Secchi Depth:  0.3   19.0 Hydro Type: DRAINAGE
Closed pH: 6.41         Equil. pH: 6.69   Turbidity:   1.5      Color:   220
Closed DIC:  0.72   Equil. DIC:  0.39           ANC:   84.0        DOC: 23.05
Ca:  131.7          Mg:   88.0      Meas. Cond:  23.2   Cal. Cond:  21.1
SO4:   33.0       HCO3:   28.0       Na:   41.8       K:   3.6       NH4:   2.2
Sum Cations:  267.8  Sum Anions:   88.3   Cl:   19.3   NO3:   6.5      F:   1.4
Tot. Al:  230.0   Ext. Al:  80.0   Fe:  465.0  Cations/Anions: 3.03  Tot. P:  14.0
                                            Mn:    0.0     SiO2:  1.20

ID: 2A3-043   Name: ECHO LAKE
Sample Type: REGULAR                                State: MN  Date: 21OCT84
Elevation:  370   Surface Temp:  7.8  Latitude: 48-10'30"N   Longitude: 92-28'30"W
Lake Area:     457 Watershed Area: 19601 WA/LA:   Stratified: MIXED  Site Depth:   2.4
Residence Time:  0.18  Secchi Depth:  1.0   42.8 Hydro Type: DRAINAGE
Closed pH: 6.89         Equil. pH: 7.65   Turbidity:   4.0      Color:    65
Closed DIC:  2.86   Equil. DIC:  2.28           ANC:  264.6        DOC: 14.60
Ca:  194.9          Mg:  125.4      Meas. Cond:  33.7   Cal. Cond:  36.8
SO4:   46.3       HCO3:  196.0       Na:   54.8       K:  18.7       NH4:   2.5
Sum Cations:  396.4  Sum Anions:  267.4   Cl:   11.0   NO3:  11.3      F:   2.4
Tot. Al:  224.5   Ext. Al:   7.0   Fe:  150.0  Cations/Anions: 1.48  Tot. P:  32.0
                                            Mn:    0.0     SiO2:  5.95

ID: 2A3-044   Name: MOOSE LAKE
Sample Type: REGULAR                                State: MN  Date: 16OCT84
Elevation:  408   Surface Temp: 12.3  Latitude: 48-00'00"N   Longitude: 91-30'00"W
Lake Area:     507 Watershed Area:  4525 WA/LA:   Stratified: MIXED  Site Depth:  19.2
Residence Time:  3.18  Secchi Depth:  2.6    8.9 Hydro Type: DRAINAGE
Closed pH: 7.72         Equil. pH: 8.45   Turbidity:   0.7      Color:    28
Closed DIC: 10.57   Equil. DIC:  9.88           ANC:  885.0        DOC:  7.40
Ca:  795.9          Mg:  151.4      Meas. Cond:  97.0   Cal. Cond: 103.1
SO4:   82.7       HCO3:  819.6       Na:   43.5       K:  10.2       NH4:   0.0
Sum Cations: 1001.0  Sum Anions:  925.8   Cl:   17.8   NO3:   0.0      F:   1.6
Tot. Al:    8.0   Ext. Al:   2.0   Fe:    0.0  Cations/Anions: 1.08  Tot. P:   7.0
                                            Mn:    0.0     SiO2:  3.73

ID: 2A3-045   Name: BULGE LAKE
Sample Type: REGULAR                                State: MN  Date: 29OCT84
Elevation:  521   Surface Temp:  4.5  Latitude: 47-47'27"N   Longitude: 90-45'48"W
Lake Area:       5 Watershed Area:  3706 WA/LA:   Stratified: MIXED  Site Depth:   1.5
Residence Time:  0.00  Secchi Depth:  1.5  788.5 Hydro Type: DRAINAGE
Closed pH: 7.25         Equil. pH: 7.68   Turbidity:   2.4      Color:    32
Closed DIC:  3.39   Equil. DIC:  3.03           ANC:  270.0        DOC:  5.90
Ca:  186.6          Mg:  157.9      Meas. Cond:  41.7   Cal. Cond:  38.6
SO4:   46.8       HCO3:  233.7       Na:   57.4       K:   7.9       NH4:   1.7
Sum Cations:  411.7  Sum Anions:  299.5   Cl:   11.8   NO3:   2.0      F:   4.8
Tot. Al:   27.0   Ext. Al:   2.0   Fe:  180.0  Cations/Anions: 1.37  Tot. P:  16.0
                                            Mn:   20.0     SiO2:  4.56
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A3-046   Name: TWO DEER LAKE                        State: MN  Date: 08OCT84
Sample Type: REGULAR             Latitude: 47-41'15"N    Longitude: 91-34'25"W
Elevation:  512   Surface Temp: 12.5  Stratified: MIXED      Site Depth:    2.1
Lake Area:      18 Watershed Area:    414 WA/LA:     23.7 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  2.1   Turbidity:   0.5      Color:    26
Closed pH: 7.44        Equil. pH: 8.44              ANC: 1024.0        DOC:  5.60
Closed DIC: 12.48   Equil. DIC: 11.33    Meas. Cond: 107.0   Cal. Cond: 118.9
Ca:  569.4          Mg:  435.2       Na:   98.7         K:  17.4      NH4:  0.6
SO4:  137.0      HCO3:  949.8       Cl:   20.6       NO3:   0.7         F:  7.1
Sum Cations: 1121.2  Sum Anions: 1122.1  Cations/Anions: 1.00   Tot. P:   8.0
Tot. Al:     6.0    Ext. Al:    1.0    Fe:   50.0      Mn:    0.0    SiO2: 13.81

ID: 2A3-052   Name: SMALL LAKE                           State: MN  Date: 17OCT84
Sample Type: REGULAR             Latitude: 47-46'25"N    Longitude: 91-13'50"W
Elevation:  479   Surface Temp: 10.3  Stratified: MIXED      Site Depth:    1.2
Lake Area:       8 Watershed Area:    148 WA/LA:     18.0 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  0.5   Turbidity:   1.6      Color:   150
Closed pH: 7.02        Equil. pH: 7.37              ANC:  196.0        DOC: 16.60
Closed DIC:  1.93   Equil. DIC:  1.65    Meas. Cond:  27.9   Cal. Cond:  26.7
Ca:  147.7          Mg:  124.2       Na:   47.0         K:   4.1      NH4:  0.0
SO4:   30.6      HCO3:  115.3       Cl:   11.6       NO3:   1.7         F:  1.6
Sum Cations:  323.1  Sum Anions:  160.8  Cations/Anions: 2.01   Tot. P:   6.0
Tot. Al:  125.0    Ext. Al:   24.0    Fe:  310.0      Mn:    0.0    SiO2:  0.84

ID: 2A3-053   Name: CAVITY LAKE                          State: MN  Date: 24OCT84
Sample Type: REGULAR             Latitude: 48-05'52"N    Longitude: 90-59'45"W
Elevation:  488   Surface Temp:  6.2  Stratified: MIXED      Site Depth:    7.0
Lake Area:      13 Watershed Area:    202 WA/LA:     15.2 Hydro Type: DRAINAGE
Residence Time:  0.74  Secchi Depth:  2.0   Turbidity:   0.7      Color:    49
Closed pH: 7.33        Equil. pH: 7.93              ANC:  400.7        DOC: 11.50
Closed DIC:  4.28   Equil. DIC:  4.05    Meas. Cond:  53.1   Cal. Cond:  50.3
Ca:  418.2          Mg:   75.7       Na:   39.6         K:  10.5      NH4:  2.2
SO4:   41.8      HCO3:  319.2       Cl:    9.9       NO3:   0.6         F:  1.4
Sum Cations:  546.2  Sum Anions:  373.4  Cations/Anions: 1.46   Tot. P:  17.0
Tot. Al:   54.0    Ext. Al:   11.0    Fe:   60.0      Mn:    0.0    SiO2:  1.19

ID: 2A3-054   Name: GATE LAKE                            State: MN  Date: 07OCT84
Sample Type: REGULAR             Latitude: 47-41'00"N    Longitude: 92-41'30"W
Elevation:  446   Surface Temp: 11.4  Stratified: MIXED      Site Depth:    9.1
Lake Area:       4 Watershed Area:     39 WA/LA:      9.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.7   Turbidity:   1.2      Color:    30
Closed pH: 6.84        Equil. pH: 7.55              ANC:  155.0        DOC:  7.60
Closed DIC:  2.11   Equil. DIC:  1.81    Meas. Cond:  21.8   Cal. Cond:  22.1
Ca:   87.3          Mg:   67.5       Na:   52.6         K:  22.5      NH4:  2.8
SO4:   12.1      HCO3:  154.7       Cl:   10.2       NO3:   0.1         F:  2.9
Sum Cations:  232.8  Sum Anions:  180.1  Cations/Anions: 1.29   Tot. P:  11.0
Tot. Al:     9.0    Ext. Al:    2.0    Fe:   50.0      Mn:    0.0    SiO2:  0.00

ID: 2A3-055   Name: MOSS LAKE                            State: MN  Date: 01NOV84
Sample Type: REGULAR             Latitude: 48-04'00"N    Longitude: 90-28'30"W
Elevation:  527   Surface Temp:  6.7  Stratified: MIXED      Site Depth:   28.4
Lake Area:     101 Watershed Area:    862 WA/LA:      8.5 Hydro Type: DRAINAGE
Residence Time:  4.86  Secchi Depth:  3.8   Turbidity:   0.3      Color:    16
Closed pH: 7.13        Equil. pH: 7.79              ANC:  346.0        DOC:  3.60
Closed DIC:  4.56   Equil. DIC:  3.94    Meas. Cond:  48.3   Cal. Cond:  50.8
Ca:  242.0          Mg:  174.4       Na:   46.5         K:  10.5      NH4:  1.7
SO4:  109.9      HCO3:  314.0       Cl:   11.3       NO3:   1.6         F:  1.8
Sum Cations:  475.2  Sum Anions:  439.3  Cations/Anions: 1.08   Tot. P:  11.0
Tot. Al:     3.0    Ext. Al:    0.0    Fe:    0.0      Mn:    0.0    SiO2:  6.37
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A3-057   Name: DEEPWATER LAKE                     State: MN  Date: 07OCT84
Sample Type: REGULAR            Latitude: 47-37'15"N    Longitude: 92-49'30"W
Elevation:  431   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   9.7
Lake Area:       8 Watershed Area:      83 WA/LA:     10.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.9  Turbidity:   0.3      Color:     4
Closed pH: 6.37       Equil. pH: 6.91                ANC:   35.0       DOC:  4.50
Closed DIC:  0.62   Equil. DIC:  0.49    Meas. Cond:  16.3   Cal. Cond:  17.1
Ca:   48.9           Mg:   48.5        Na:    17.4        K:  21.5       NH4:  2.2
SO4:   81.6       HCO3:   32.0        Cl:     9.3       NO3:   0.9          F:  2.2
Sum Cations:  138.8  Sum Anions:  126.0  Cations/Anions: 1.10   Tot. P:   4.0
Tot. Al:    17.0    Ext. Al:    0.0     Fe:    40.0       Mn:    0.0    SiO2:  0.00

ID: 2A3-058   Name: BOYS LAKE                          State: MN  Date: 20OCT84
Sample Type: REGULAR            Latitude: 47-52'25"N    Longitude: 90-13'11"W
Elevation:  518   Surface Temp:  8.1  Stratified: MIXED      Site Depth:   2.4
Lake Area:       9 Watershed Area:     127 WA/LA:     13.7 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  2.4  Turbidity:   0.8      Color:    23
Closed pH: 7.36       Equil. pH: 7.89                ANC:  351.5       DOC:  8.90
Closed DIC:  4.18   Equil. DIC:  3.30    Meas. Cond:  44.5   Cal. Cond:  49.8
Ca:  230.0           Mg:  177.7        Na:    61.3        K:   7.4       NH4:  7.2
SO4:   90.8       HCO3:  318.4        Cl:     7.1       NO3:   1.4          F:  6.8
Sum Cations:  483.7  Sum Anions:  425.3  Cations/Anions: 1.14   Tot. P:  17.0
Tot. Al:    15.0    Ext. Al:    3.0     Fe:    20.0       Mn:    0.0    SiO2:  1.95

ID: 2A3-061   Name: RAINY LAKE                         State: MN  Date: 21OCT84
Sample Type: REGULAR            Latitude: 48-34'30"N    Longitude: 92-54'00"W
Elevation:  338   Surface Temp: 11.4  Stratified: MIXED      Site Depth:  20.4
Lake Area:   89358 Watershed Area:        * WA/LA:        *  Hydro Type: RESERVOIR
Residence Time:    *    Secchi Depth:  2.5  Turbidity:   0.7      Color:    41
Closed pH: 7.18       Equil. pH: 7.72                ANC:  317.3       DOC: 12.80
Closed DIC:  3.28   Equil. DIC:  3.01    Meas. Cond:  41.4   Cal. Cond:  46.2
Ca:  267.5           Mg:  140.7        Na:    54.4        K:  15.6       NH4:  0.1
SO4:   77.9       HCO3:  248.0        Cl:    17.8       NO3:   2.4          F:  2.3
Sum Cations:  478.2  Sum Anions:  349.1  Cations/Anions: 1.37   Tot. P:  17.0
Tot. Al:    30.0    Ext. Al:    1.0     Fe:    10.0       Mn:    0.0    SiO2:  3.25

ID: 2A3-062   Name: FALLS LAKES (NORTHERN)             State: MN  Date: 08OCT84
Sample Type: REGULAR            Latitude: 47-44'25"N    Longitude: 92-10'45"W
Elevation:  444   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   2.7
Lake Area:       5 Watershed Area:     355 WA/LA:     67.0 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  0.6  Turbidity:   6.3      Color:   210
Closed pH: 6.94       Equil. pH: 8.09                ANC:  692.0       DOC: 23.70
Closed DIC:  8.18   Equil. DIC:  6.57    Meas. Cond:  71.3   Cal. Cond:  74.7
Ca:  609.3           Mg:  163.7        Na:    43.1        K:   6.6       NH4:  0.6
SO4:    9.2       HCO3:  572.4        Cl:     5.9       NO3:   0.9          F:  4.6
Sum Cations:  823.3  Sum Anions:  595.1  Cations/Anions: 1.38   Tot. P:  20.0
Tot. Al:    61.0    Ext. Al:    8.0     Fe:  2060.0       Mn:  310.0    SiO2: 10.76

ID: 2A3-064   Name: MAJESTIC LAKE                      State: MN  Date: 07OCT84
Sample Type: REGULAR            Latitude: 47-27'35"N    Longitude: 92-37'42"W
Elevation:  426   Surface Temp: 11.5  Stratified: STRONG     Site Depth:  15.2
Lake Area:      20 Watershed Area:     215 WA/LA:     10.9 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.4  Turbidity:   3.1      Color:    38
Closed pH: 7.61       Equil. pH: 8.28                ANC:  990.0       DOC: 10.70
Closed DIC:  8.23   Equil. DIC:  8.43    Meas. Cond: 117.0   Cal. Cond: 122.3
Ca:  490.0           Mg:  330.7        Na:   237.5        K: 107.4       NH4:  1.7
SO4:   57.9       HCO3:  692.4        Cl:   259.0       NO3:   0.9          F:  3.8
Sum Cations: 1167.3  Sum Anions: 1017.5  Cations/Anions: 1.15   Tot. P:  20.0
Tot. Al:    10.0    Ext. Al:    3.0     Fe:    30.0       Mn:    0.0    SiO2:  0.63
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A3-068   Name: AMBUSH LAKE                       State: MN  Date: 24OCT84
Sample Type: REGULAR            Latitude: 48-10'22"N    Longitude: 90-51'38"W
Elevation:  445   Surface Temp:  6.1  Stratified: MIXED      Site Depth:   4.3
Lake Area:      12 Watershed Area:     202 WA/LA:      17.0 Hydro Type: DRAINAGE
Residence Time:  0.41  Secchi Depth:  1.4   Turbidity:   0.9      Color:    79
Closed pH: 6.95       Equil. pH: 7.76               ANC:  183.0         DOC: 12.70
Closed DIC:  2.82   Equil. DIC:  2.53   Meas. Cond:  42.4   Cal. Cond:  41.4
Ca:  226.5          Mg:  144.0       Na:   72.6         K:   7.2       NH4:   1.7
SO4:   62.0       HCO3:  189.4       Cl:   29.6       NO3:   1.8          F:   2.9
Sum Cations:  452.1  Sum Anions:  286.0  Cations/Anions: 1.58   Tot. P:  23.0
Tot. Al:   67.0    Ext. Al:  13.0    Fe:  150.0      Mn:    0.0    SiO2:  1.19


ID: 2A3-069   Name: SNOWBANK LAKE                     State: MN  Date: 16OCT84
Sample Type: REGULAR            Latitude: 48-00'00"N    Longitude: 91-25'00"W
Elevation:  434   Surface Temp: 11.9  Stratified: MIXED      Site Depth:  36.0
Lake Area:    1824 Watershed Area:    4470 WA/LA:       2.4 Hydro Type: DRAINAGE
Residence Time: 14.42  Secchi Depth:  4.3   Turbidity:   0.3      Color:     6
Closed pH: 7.34       Equil. pH: 7.84               ANC:  268.0         DOC:  4.40
Closed DIC:  3.13   Equil. DIC:  2.87   Meas. Cond:  39.2   Cal. Cond:  39.3
Ca:  231.0          Mg:   92.1       Na:   37.8         K:  12.0       NH4:   0.0
SO4:   87.2       HCO3:  226.1       Cl:    9.0       NO3:   0.4          F:   1.9
Sum Cations:  373.1  Sum Anions:  325.2  Cations/Anions: 1.15   Tot. P:   5.0
Tot. Al:   13.0    Ext. Al:   3.0    Fe:    0.0      Mn:    0.0    SiO2:  0.04


ID: 2A3-070   Name: PICKEREL LAKE                     State: MN  Date: 16OCT84
Sample Type: REGULAR            Latitude: 47-55'07"N    Longitude: 91-40'00"W
Elevation:  427   Surface Temp: 12.6  Stratified: MIXED      Site Depth:   3.0
Lake Area:      72 Watershed Area:     251 WA/LA:       3.5 Hydro Type: DRAINAGE
Residence Time:  0.98  Secchi Depth:  3.0   Turbidity:   0.6      Color:    24
Closed pH: 7.74       Equil. pH: 8.28               ANC:  779.0         DOC:  9.60
Closed DIC:  8.03   Equil. DIC:  7.56   Meas. Cond:  89.0   Cal. Cond:  98.1
Ca:  676.1          Mg:  149.7       Na:   60.9         K:   9.2       NH4:   0.0
SO4:  203.0       HCO3:  610.8       Cl:   32.7       NO3:   0.0          F:   2.3
Sum Cations:  896.0  Sum Anions:  851.2  Cations/Anions: 1.05   Tot. P:  11.0
Tot. Al:   23.0    Ext. Al:  14.0    Fe:   10.0      Mn:    0.0    SiO2:  2.90


ID: 2A3-074   Name: RIDGEPOLE LAKE                    State: MN  Date: 08OCT84
Sample Type: REGULAR            Latitude: 47-32'45"N    Longitude: 91-43'00"W
Elevation:  519   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   2.4
Lake Area:       9 Watershed Area:     127 WA/LA:      14.6 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.2   Turbidity:   1.7      Color:    37
Closed pH: 6.87       Equil. pH: 6.29               ANC:   34.0         DOC:  9.80
Closed DIC:  0.38   Equil. DIC:  0.23   Meas. Cond:  10.3   Cal. Cond:   8.7
Ca:   49.9          Mg:   27.1       Na:    6.5         K:   8.9       NH4:   0.6
SO4:   21.7       HCO3:   10.6       Cl:    5.9       NO3:   0.0          F:   2.1
Sum Cations:   94.4  Sum Anions:   40.3  Cations/Anions: 2.34   Tot. P:   8.0
Tot. Al:   40.0    Ext. Al:   9.0    Fe:   40.0      Mn:  110.0    SiO2:  1.72


ID: 2A3-076   Name: STUART LAKE                       State: MN  Date: 14OCT84
Sample Type: REGULAR            Latitude: 47-33'50"N    Longitude: 93-02'50"W
Elevation:  435   Surface Temp: 13.9  Stratified: WEAK       Site Depth:   7.3
Lake Area:      13 Watershed Area:      91 WA/LA:       6.9 Hydro Type: DRAINAGE
Residence Time:  2.19  Secchi Depth:  2.0   Turbidity:   0.8      Color:    45
Closed pH: 6.86       Equil. pH: 7.18               ANC:  163.0         DOC:  9.90
Closed DIC:  1.94   Equil. DIC:  1.54   Meas. Cond:  31.1   Cal. Cond:  30.0
Ca:  137.2          Mg:   88.0       Na:   40.0         K:  36.1       NH4:   0.0
SO4:   74.5       HCO3:  119.9       Cl:   13.3       NO3:   0.1          F:   2.1
Sum Cations:  301.4  Sum Anions:  210.1  Cations/Anions: 1.43   Tot. P:  22.0
Tot. Al:   47.0    Ext. Al:  16.0    Fe:   10.0      Mn:   20.0    SiO2:  0.41
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A3-077   Name: BEDFORD LAKE                      State: MN  Date: 23OCT84
Sample Type: REGULAR            Latitude: 48-03'13"N    Longitude: 91-15'36"W
Elevation:  457   Surface Temp:  9.1  Stratified: MIXED     Site Depth:  15.5
Lake Area:      11 Watershed Area:      65 WA/LA:      6.1 Hydro Type: DRAINAGE
Residence Time:  3.46  Secchi Depth:  3.6  Turbidity:   0.6     Color:   23
Closed pH: 7.36      Equil. pH: 8.31             ANC:  680.0        DOC:  6.50
Closed DIC:  8.28  Equil. DIC:  7.28   Meas. Cond:  74.2  Cal. Cond:  77.0
Ca:  577.8          Mg:  126.7      Na:   40.0        K:  17.3      NH4:  0.6
SO4:   60.6       HCO3:  605.8      Cl:    7.3      NO3:   0.4        F:  1.5
Sum Cations:  762.4  Sum Anions:  677.3  Cations/Anions: 1.13   Tot. P:  10.0
Tot. Al:   11.0   Ext. Al:   1.0    Fe:    0.0      Mn:    0.0    SiO2:  1.56


ID: 2A3-078   Name: MOOSE LAKE                        State: MN  Date: 20OCT84
Sample Type: REGULAR            Latitude: 47-33'41"N    Longitude: 91-08'00"W
Elevation:  488   Surface Temp:  6.7  Stratified: MIXED     Site Depth:   1.8
Lake Area:     80 Watershed Area:   5294 WA/LA:     66.1 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  0.4  Turbidity:   6.0     Color:   94
Closed pH: 7.38      Equil. pH: 7.92             ANC:  439.9        DOC: 10.70
Closed DIC:  4.87  Equil. DIC:  4.13   Meas. Cond:  52.8  Cal. Cond:  60.0
Ca:  355.8          Mg:  171.9      Na:   72.2        K:  10.2      NH4:  1.7
SO4:   75.6       HCO3:  391.3      Cl:   10.4      NO3:   5.5        F:  8.9
Sum Cations:  611.8  Sum Anions:  493.2  Cations/Anions: 1.24   Tot. P:  14.0
Tot. Al:  193.0   Ext. Al:   9.0    Fe:  180.0      Mn:    0.0    SiO2: 10.41


ID: 2A3-079   Name: CORNER LAKE                       State: MN  Date: 21OCT84
Sample Type: REGULAR            Latitude: 48-16'55"N    Longitude: 92-46'45"W
Elevation:  408   Surface Temp:  6.0  Stratified: MIXED     Site Depth:   0.9
Lake Area:      15 Watershed Area:     300 WA/LA:     19.6 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  0.9  Turbidity:   1.9     Color:  125
Closed pH: 7.10      Equil. pH: 7.82             ANC:  408.6        DOC: 18.90
Closed DIC:  4.08  Equil. DIC:  2.82   Meas. Cond:  44.3  Cal. Cond:  45.7
Ca:  282.4          Mg:  199.1      Na:   38.7        K:  14.1      NH4:  0.0
SO4:   20.0       HCO3:  291.1      Cl:    7.9      NO3:   1.3        F:  1.9
Sum Cations:  534.4  Sum Anions:  322.5  Cations/Anions: 1.66   Tot. P:  19.0
Tot. Al:   55.0   Ext. Al:  16.0    Fe:   80.0      Mn:    0.0    SiO2:  2.59


ID: 2A3-080   Name: WEST TWO RIVER RES                State: MN  Date: 07OCT84
Sample Type: REGULAR            Latitude: 47-28'48"N    Longitude: 92-39'30"W
Elevation:  425   Surface Temp: 11.7  Stratified: MIXED     Site Depth:   3.7
Lake Area:     46 Watershed Area:   5623 WA/LA:    121.7 Hydro Type: RESERVOIR
Residence Time:  0.11  Secchi Depth:  2.3  Turbidity:   1.0     Color:   26
Closed pH: 8.53      Equil. pH: 8.93             ANC: 2401.7        DOC:  7.50
Closed DIC: 35.80  Equil. DIC: 35.78   Meas. Cond: 494.0  Cal. Cond: 667.1
Ca: 1690.1          Mg: 2676.2      Na:  877.0        K: 165.2      NH4:  1.7
SO4: 1917.5       HCO3: 2964.6      Cl: 1006.7      NO3:   2.4        F: 24.4
Sum Cations: 5410.1  Sum Anions: 5986.8  Cations/Anions: 0.90   Tot. P:  24.0
Tot. Al:   17.0   Ext. Al:   3.0    Fe:   30.0      Mn:   20.0    SiO2:  0.83


ID: 2A3-081   Name: (NO NAME)                         State: MN  Date: 07OCT84
Sample Type: REGULAR            Latitude: 47-29'40"N    Longitude: 92-36'30"W
Elevation:  431   Surface Temp: 11.2  Stratified: MIXED     Site Depth:   7.0
Lake Area:       7 Watershed Area:      52 WA/LA:      7.8 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  0.8  Turbidity:   2.4     Color:   98
Closed pH: 6.46      Equil. pH: 7.32             ANC:  138.0        DOC: 15.50
Closed DIC:  1.67  Equil. DIC:  1.06   Meas. Cond:  28.2  Cal. Cond:  26.4
Ca:  125.7          Mg:   93.8      Na:   33.9        K:  33.0      NH4:  4.4
SO4:   50.4       HCO3:   77.9      Cl:   16.1      NO3:   6.8        F:  4.1
Sum Cations:  291.1  Sum Anions:  155.3  Cations/Anions: 1.87   Tot. P:  15.0
Tot. Al:   88.0   Ext. Al:  17.0    Fe:  470.0      Mn:    0.0    SiO2:  0.06
```

(continued)

TABLE 3-1 (continued)

```
ID: 2A3-082   Name: DIX LAKE                          State: MN  Date: 23OCT84
Sample Type: REGULAR             Latitude: 48-04'15"N    Longitude: 91-14'00"W
Elevation:  440   Surface Temp:  9.7  Stratified: MIXED     Site Depth:  12.2
Lake Area:      44 Watershed Area:     363 WA/LA:      8.3 Hydro Type: DRAINAGE
Residence Time:  2.14  Secchi Depth:  2.3   Turbidity:   1.1      Color:   23
Closed pH: 7.46        Equil. pH: 8.25               ANC:  704.0        DOC:  5.30
Closed DIC:  8.41   Equil. DIC:  7.69    Meas. Cond:  74.4   Cal. Cond:  77.2
Ca:  576.8          Mg:  139.0       Na:    33.9         K:  10.1       NH4:  2.8
SO4:    54.5      HCO3:  621.1      Cl:     7.9       NO3:   0.4          F:  1.5
Sum Cations:  762.7  Sum Anions:  687.3  Cations/Anions: 1.11   Tot. P:  13.0
Tot. Al:    12.0    Ext. Al:    0.0     Fe:    30.0      Mn:    0.0    SiO2:  0.91

ID: 2A3-083   Name: BUCKSHOT LAKE                     State: MN  Date: 22OCT84
Sample Type: REGULAR             Latitude: 47-53'48"N    Longitude: 92-08'53"W
Elevation:  458   Surface Temp:  8.3  Stratified: MIXED     Site Depth:  10.1
Lake Area:      12 Watershed Area:      67 WA/LA:      5.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.8   Turbidity:   0.6      Color:   32
Closed pH: 6.40        Equil. pH: 7.08               ANC:   89.0        DOC:  6.40
Closed DIC:  1.57   Equil. DIC:  0.97    Meas. Cond:  19.9   Cal. Cond:  19.7
Ca:   81.3          Mg:    52.6      Na:    35.7         K:   6.2       NH4: 16.6
SO4:    57.9      HCO3:   73.2      Cl:     6.5       NO3:   0.7          F:  2.2
Sum Cations:  192.7  Sum Anions:  140.6  Cations/Anions: 1.37   Tot. P:   7.0
Tot. Al:    41.0    Ext. Al:    6.0     Fe:   120.0      Mn:   20.0    SiO2:  2.93

ID: 2A3-085   Name: PARTRIDGE LAKE                    State: MN  Date: 29OCT84
Sample Type: REGULAR             Latitude: 48-05'03"N    Longitude: 90-29'15"W
Elevation:  540   Surface Temp:  6.7  Stratified: MIXED     Site Depth:  14.0
Lake Area:      47 Watershed Area:     275 WA/LA:      5.8 Hydro Type: DRAINAGE
Residence Time:  3.21  Secchi Depth:  2.6   Turbidity:   1.6      Color:   38
Closed pH: 6.99        Equil. pH: 7.90               ANC:  421.0        DOC:  6.4[illegible]
Closed DIC:  5.42   Equil. DIC:  4.32    Meas. Cond:  55.8   Cal. Cond:  59.2
Ca:  313.4          Mg:  181.0       Na:    52.2         K:  15.9       NH4:  0.6
SO4:   127.6      HCO3:  355.8      Cl:     8.7       NO3:   2.9          F:  2.5
Sum Cations:  563.0  Sum Anions:  498.0  Cations/Anions: 1.13   Tot. P:  12.0
Tot. Al:    12.0    Ext. Al:    1.0     Fe:   170.0      Mn:   20.0    SiO2: 10.90

ID: 2B1-005   Name: LOON LAKE                         State: WI  Date: 06NOV84
Sample Type: REGULAR             Latitude: 46-34'15"N    Longitude: 91-18'45"W
Elevation:  340   Surface Temp:  5.0  Stratified: MIXED     Site Depth:  10.1
Lake Area:      15 Watershed Area:      70 WA/LA:      4.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.5   Turbidity:   0.4      Color:   17
Closed pH: 6.28        Equil. pH: 7.06               ANC:   31.0        DOC:  3.40
Closed DIC:  0.79   Equil. DIC:  0.38    Meas. Cond:  14.9   Cal. Cond:  14.3
Ca:    54.9         Mg:    39.5      Na:    15.2         K:   9.5       NH4:  0.6
SO4:    67.0      HCO3:   27.3      Cl:     6.8       NO3:   1.5          F:  1.1
Sum Cations:  120.3  Sum Anions:  103.7  Cations/Anions: 1.16   Tot. P:  10.0
Tot. Al:    17.0    Ext. Al:    1.0     Fe:    20.0      Mn:    0.0    SiO2:  0.00

ID: 2B1-008   Name: TWIN LAKES (SOUTHERN)             State: WI  Date: 06NOV84
Sample Type: REGULAR             Latitude: 46-33'00"N    Longitude: 91-16"30"W
Elevation:  332   Surface Temp:  3.9  Stratified: MIXED     Site Depth:   3.4
Lake Area:       6 Watershed Area:      34 WA/LA:      5.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.7   Turbidity:   1.1      Color:   28
Closed pH: 6.47        Equil. pH: 7.12               ANC:   56.0        DOC:  5.80
Closed DIC:  1.26   Equil. DIC:  0.72    Meas. Cond:  11.1   Cal. Cond:  10.7
Ca:   48.9          Mg:    37.8      Na:     9.1         K:   4.9       NH4:  0.0
SO4:    16.4      HCO3:   72.7      Cl:     4.5       NO3:   0.0          F:  0.7
Sum Cations:  101.0  Sum Anions:   94.4  Cations/Anions: 1.07   Tot. P:  15.0
Tot. Al:    20.0    Ext. Al:    0.0     Fe:   190.0      Mn:   10.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B1-010   Name: ISLAND LAKE                        State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-32'18"N   Longitude: 91-18'20"W
Elevation:  336   Surface Temp:  5.1  Stratified: MIXED      Site Depth:   9.4
Lake Area:       12 Watershed Area:      54 WA/LA:      4.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.4   Turbidity:   0.8      Color:   23
Closed pH: 6.52        Equil. pH: 7.15              ANC:   93.0         DOC:  4.60
Closed DIC:  1.73   Equil. DIC:  1.12    Meas. Cond:  13.8   Cal. Cond:  13.1
Ca:   63.9           Mg:   42.8        Na:    13.5          K:   5.4       NH4:  1.7
SO4:    16.9        HCO3:   88.1        Cl:     5.1       NO3:   0.0          F:  0.7
Sum Cations:  127.4  Sum Anions:  110.8  Cations/Anions: 1.15   Tot. P:  12.0
Tot. Al:    12.0    Ext. Al:    0.0    Fe:   130.0      Mn:    20.0     SiO2:  0.28

ID: 2B1-011   Name: WANOKA LAKE                        State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-32'43"N   Longitude: 91-16'55"W
Elevation:  332   Surface Temp:  4.4  Stratified: MIXED      Site Depth:   6.7
Lake Area:        6 Watershed Area:      47 WA/LA:      8.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.5   Turbidity:   0.6      Color:   18
Closed pH: 7.46        Equil. pH: 8.04              ANC:  404.0         DOC:  3.10
Closed DIC:  4.74   Equil. DIC:  4.52    Meas. Cond:  45.4   Cal. Cond:  46.1
Ca:  245.0           Mg:  163.7        Na:    40.0          K:   6.4       NH4:  0.0
SO4:    30.6        HCO3:  385.8        Cl:     5.9       NO3:   1.4          F:  1.5
Sum Cations:  455.2  Sum Anions:  426.4  Cations/Anions: 1.07   Tot. P:  12.0
Tot. Al:    27.0    Ext. Al:    0.0    Fe:    20.0      Mn:     0.0     SiO2:  1.40

ID: 2B1-012   Name: FINGER LAKE                        State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-30'45'N   Longitude: 91-16'10"W
Elevation:  334   Surface Temp:  4.5  Stratified: MIXED      Site Depth:   7.3
Lake Area:       18 Watershed Area:     347 WA/LA:     18.8 Hydro Type: DRAINAGE
Residence Time:  0.63  Secchi Depth:  0.9   Turbidity:   1.1      Color:  110
Closed pH: 6.22        Equil. pH: 7.01              ANC:   82.0         DOC: 11.60
Closed DIC:  1.49   Equil. DIC:  0.62    Meas. Cond:  20.1   Cal. Cond:  18.0
Ca:   90.3           Mg:   60.9        Na:    23.5          K:  13.3       NH4:  2.8
SO4:    45.4        HCO3:   54.6        Cl:     9.9       NO3:   0.3          F:  0.9
Sum Cations:  191.2  Sum Anions:  111.2  Cations/Anions: 1.72   Tot. P:  31.0
Tot. Al:   188.0    Ext. Al:   47.0    Fe:   280.0      Mn:    20.0     SiO2:  1.45

ID: 2B1-013   Name: LESTER LAKE                        State: WI  Date: 05NOV84
Sample Type: REGULAR            Latitude: 46-30'00"N   Longitude: 91-18'20"W
Elevation:  326   Surface Temp:  6.0  Stratified: MIXED      Site Depth:   9.4
Lake Area:       10 Watershed Area:     220 WA/LA:     23.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.9   Turbidity:   1.5      Color:   22
Closed pH: 6.76        Equil. pH: 7.50              ANC:  211.9         DOC:  3.90
Closed DIC:  3.25   Equil. DIC:  3.16    Meas. Cond:  25.5   Cal. Cond:  30.0
Ca:  135.7           Mg:   84.7        Na:    31.3          K:  12.0       NH4:  5.8
SO4:    38.9        HCO3:  238.1        Cl:     7.9       NO3:   1.6          F:  1.4
Sum Cations:  269.7  Sum Anions:  288.2  Cations/Anions: 0.94   Tot. P:   6.0
Tot. Al:     4.0    Ext. Al:    2.0    Fe:    90.0      Mn:    20.0     SiO2:  0.53

ID: 2B1-015   Name: PHANTOM LAKE                       State: WI  Date: 05NOV84
Sample Type: REGULAR            Latitude: 46-29'30"N   Longitude: 91-17'45"W
Elevation:  325   Surface Temp:  5.4  Stratified: MIXED      Site Depth:  11.3
Lake Area:       18 Watershed Area:      57 WA/LA:      3.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.5   Turbidity:   0.8      Color:   27
Closed pH: 6.48        Equil. pH: 6.84              ANC:   70.1         DOC:  6.00
Closed DIC:  1.09   Equil. DIC:  0.86    Meas. Cond:  13.1   Cal. Cond:  14.7
Ca:   72.9           Mg:   40.3        Na:    12.6          K:  12.5       NH4:  2.4
SO4:    46.2        HCO3:   44.2        Cl:     7.3       NO3:   1.4          F:  1.2
Sum Cations:  141.1  Sum Anions:  100.4  Cations/Anions: 1.41   Tot. P:  15.0
Tot. Al:     5.0    Ext. Al:    3.0    Fe:   170.0      Mn:    10.0     SiO2:  0.28
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B1-016   Name: DEEP LAKE                              State: WI  Date: 06NOV84
Sample Type: REGULAR              Latitude: 46-29'37"N   Longitude: 91-14'30"W
Elevation:  361   Surface Temp:  4.2  Stratified: MIXED      Site Depth:   7.0
Lake Area:        4 Watershed Area:      83 WA/LA:     19.8 Hydro Type: DRAINAGE
Residence Time:  0.58  Secchi Depth:  0.9   Turbidity:   1.1      Color:    99
Closed pH: 5.85        Equil. pH: 6.97               ANC:   89.0         DOC: 11.30
Closed DIC:  3.04   Equil. DIC:  0.58    Meas. Cond:  21.1   Cal. Cond:  19.5
Ca:   97.3          Mg:    59.2        Na:    22.2        K:  13.3       NH4:   7.8
SO4:   54.1       HCO3:    57.9        Cl:     7.9      NO3:   1.0         F:   0.9
Sum Cations:  200.7  Sum Anions:   121.8  Cations/Anions: 1.65   Tot. P:  35.0
Tot. Al:  292.0    Ext. Al: 120.0    Fe:  310.0      Mn:    60.0     SiO2:  2.10

ID: 2B1-019   Name: SAWMILL LAKE                           State: WI  Date: 06NOV84
Sample Type: REGULAR              Latitude: 46-28'50"N   Longitude: 91-14'45"W
Elevation:  364   Surface Temp:  4.2  Stratified: MIXED      Site Depth:  20.4
Lake Area:        4 Watershed Area:      13 WA/LA:      3.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.9   Turbidity:   1.1      Color:   115
Closed pH: 5.50        Equil. pH: 6.25               ANC:   43.0         DOC: 12.20
Closed DIC:  2.52   Equil. DIC:  0.23    Meas. Cond:  17.4   Cal. Cond:  15.4
Ca:   69.4          Mg:    49.4        Na:    17.8        K:  14.1       NH4:   4.4
SO4:   50.2       HCO3:    22.6        Cl:     7.1      NO3:   0.0         F:   0.9
Sum Cations:  157.3  Sum Anions:    80.8  Cations/Anions: 1.95   Tot. P:  23.0
Tot. Al:  226.0    Ext. Al:  98.0    Fe:  450.0      Mn:    60.0     SiO2:  0.00

ID: 2B1-020   Name: PERCH LAKE                             State: WI  Date: 01NOV84
Sample Type: REGULAR              Latitude: 46-47'45"N   Longitude: 91-05'40"W
Elevation:  337   Surface Temp:  4.3  Stratified: MIXED      Site Depth:   3.7
Lake Area:        8 Watershed Area:     720 WA/LA:     94.7 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  0.5   Turbidity:   0.7      Color:   345
Closed pH: 4.53        Equil. pH: 4.51               ANC:  -36.7         DOC: 28.80
Closed DIC:  0.89   Equil. DIC:  0.14    Meas. Cond:  27.8   Cal. Cond:  25.2
Ca:   68.9          Mg:    43.6        Na:    29.6        K:  15.1       NH4:   3.3
SO4:   29.1       HCO3:     0.9        Cl:    29.9      NO3:   2.9         F:   1.1
Sum Cations:  192.1  Sum Anions:    63.8  Cations/Anions: 3.01   Tot. P:  33.0
Tot. Al:  443.0    Ext. Al: 191.0    Fe: 1030.0      Mn:    40.0     SiO2:  2.72

ID: 2B1-022   Name: TWIN LAKES (EASTERN)                   State: WI  Date: 01NOV84
Sample Type: REGULAR              Latitude: 46-41'06"N   Longitude: 91-03'30"W
Elevation:  336   Surface Temp:  6.0  Stratified: MIXED      Site Depth:   3.3
Lake Area:        9 Watershed Area:     197 WA/LA:     22.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.3   Turbidity:   0.5      Color:    18
Closed pH: 5.90        Equil. pH: 6.36               ANC:   12.8         DOC:  3.35
Closed DIC:  0.70   Equil. DIC:  0.28    Meas. Cond:  13.0   Cal. Cond:  13.6
Ca:   41.2          Mg:    32.1        Na:    12.0        K:  13.0       NH4:   3.0
SO4:   69.6       HCO3:    14.3        Cl:    11.6      NO3:   1.2         F:   0.7
Sum Cations:  102.6  Sum Anions:    97.5  Cations/Anions: 1.05   Tot. P:  14.5
Tot. Al:   21.0    Ext. Al:   4.0    Fe:   20.0      Mn:     0.0     SiO2:  0.02

ID: 2B1-023   Name: LONG LAKE                              State: WI  Date: 01NOV84
Sample Type: REGULAR              Latitude: 46-39'43"N   Longitude: 91-03'15"W
Elevation:  328   Surface Temp:  5.3  Stratified: MIXED      Site Depth:   4.0
Lake Area:       13 Watershed Area:    1417 WA/LA:    109.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.0   Turbidity:   0.4      Color:    18
Closed pH: 6.06        Equil. pH: 6.27               ANC:   12.0         DOC:  4.00
Closed DIC:  0.45   Equil. DIC:  0.25    Meas. Cond:  14.4   Cal. Cond:  14.4
Ca:   45.9          Mg:    35.4        Na:    13.0        K:  16.6       NH4:   2.2
SO4:   79.3       HCO3:    10.1        Cl:     6.2      NO3:   1.2         F:   0.8
Sum Cations:  114.3  Sum Anions:    97.6  Cations/Anions: 1.17   Tot. P:  12.0
Tot. Al:   42.0    Ext. Al:   7.0    Fe:   50.0      Mn:     0.0     SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B1-029   Name: MARKEY LAKE                             State: MI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 46-34'22"N    Longitude: 88-46'55"W
Elevation:  413   Surface Temp:  5.4  Stratified: MIXED      Site Depth:  20.4
Lake Area:      18 Watershed Area:     114 WA/LA:      6.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.4   Turbidity:   0.4      Color:    20
Closed pH: 5.73        Equil. pH: 6.38             ANC:    16.1        DOC:  3.40
Closed DIC:  0.85   Equil. DIC:  0.31    Meas. Cond:  14.4   Cal. Cond:  14.1
Ca:    45.9          Mg:    31.3       Na:    12.2        K:  18.2      NH4:  0.6
SO4:    73.7      HCO3:    14.6      Cl:     7.1      NO3:   0.7          F:  0.8
Sum Cations:  109.6  Sum Anions:    96.8  Cations/Anions: 1.13   Tot. P:   9.0
Tot. Al:   35.0    Ext. Al:  14.0    Fe:    40.0     Mn:     0.0    SiO2:  0.20

ID: 2B1-031   Name: ESTES LAKE                              State: MI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 46-33'31"N    Longitude: 88-45'18"W
Elevation:  406   Surface Temp:  5.7  Stratified: MIXED      Site Depth:  18.3
Lake Area:      11 Watershed Area:     161 WA/LA:     14.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.0   Turbidity:   0.6      Color:    25
Closed pH: 6.07        Equil. pH: 6.85             ANC:    49.0        DOC:  4.10
Closed DIC:  1.63   Equil. DIC:  0.58    Meas. Cond:  17.7   Cal. Cond:  17.6
Ca:    71.9          Mg:    38.7       Na:    13.0        K:  23.5      NH4:  0.6
SO4:    79.1      HCO3:    43.1      Cl:     4.8      NO3:   0.0          F:  0.7
Sum Cations:  148.3  Sum Anions:   127.8  Cations/Anions: 1.16   Tot. P:  10.0
Tot. Al:   36.0    Ext. Al:   9.0    Fe:    60.0     Mn:    10.0    SiO2:  0.22

ID: 2B1-034   Name: TEAL LAKE                               State: MI  Date: 20OCT84
Sample Type: REGULAR              Latitude: 46-33'57"N    Longitude: 86-05'33"W
Elevation:  286   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   6.1
Lake Area:      24 Watershed Area:     471 WA/LA:     19.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.7   Turbidity:   0.5      Color:    10
Closed pH: 6.06        Equil. pH: 6.42             ANC:    13.5        DOC:  2.50
Closed DIC:  0.49   Equil. DIC:  0.22    Meas. Cond:  10.9   Cal. Cond:  12.1
Ca:    50.9          Mg:    23.9       Na:    10.9        K:  12.8      NH4:  1.1
SO4:    60.0      HCO3:    17.5      Cl:     5.6      NO3:   0.0          F:  0.7
Sum Cations:  100.1  Sum Anions:    83.9  Cations/Anions: 1.19   Tot. P:   9.0
Tot. Al:    9.0    Ext. Al:   3.0    Fe:     0.0     Mn:    10.0    SiO2:  0.48

ID: 2B1-035   Name: LAKE NITA                               State: MI  Date: 20OCT84
Sample Type: REGULAR              Latitude: 46-33'00"N    Longitude: 86-03'51"W
Elevation:  282   Surface Temp: 10.2  Stratified: MIXED      Site Depth:   2.4
Lake Area:       4 Watershed Area:     119 WA/LA:     27.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.5   Turbidity:   1.1      Color:    80
Closed pH: 4.96        Equil. pH: 5.04             ANC:     3.8        DOC:  4.70
Closed DIC:  0.81   Equil. DIC:  0.43    Meas. Cond:   9.0   Cal. Cond:   9.0
Ca:    22.0          Mg:    13.2       Na:     6.5        K:  15.3      NH4:  3.3
SO4:    16.9      HCO3:     2.0      Cl:     4.5      NO3:   0.1          F:  0.7
Sum Cations:   70.3  Sum Anions:    24.2  Cations/Anions: 2.91   Tot. P:  17.0
Tot. Al:   49.0    Ext. Al:  18.0    Fe:   110.0     Mn:    30.0    SiO2:  0.61

ID: 2B1-036   Name: NUGENT LAKE                             State: MI  Date: 20OCT84
Sample Type: REGULAR              Latitude: 46-31'42"N    Longitude: 86-11'38"W
Elevation:  274   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   8.5
Lake Area:      11 Watershed Area:      78 WA/LA:      6.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.9   Turbidity:   0.6      Color:    10
Closed pH: 7.19        Equil. pH: 7.69             ANC:   223.0        DOC:  4.40
Closed DIC:  2.73   Equil. DIC:  2.56    Meas. Cond:  29.6   Cal. Cond:  35.9
Ca:   223.6          Mg:    60.9       Na:    17.4        K:  10.7      NH4:  0.5
SO4:    67.7      HCO3:   264.8      Cl:     5.4      NO3:   0.0          F:  1.0
Sum Cations:  313.1  Sum Anions:   339.3  Cations/Anions: 0.92   Tot. P:   9.0
Tot. Al:   12.0    Ext. Al:   7.0    Fe:    10.0     Mn:     0.0    SiO2:  0.71
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B1-037   Name: WISE LAKE                       State: MI  Date: 20OCT84
Sample Type: REGULAR          Latitude: 46-31'35"N    Longitude: 86-10'23"W
Elevation:  273   Surface Temp:  8.7  Stratified: MIXED     Site Depth:   2.4
Lake Area:      9 Watershed Area:     132 WA/LA:     14.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.4   Turbidity:   0.8     Color:   15
Closed pH: 7.56        Equil. pH: 8.11            ANC:  581.4       DOC: 12.90
Closed DIC:  6.97   Equil. DIC:  6.05     Meas. Cond:  61.7   Cal. Cond:  65.2
Ca:  467.6          Mg:  142.3     Na:   22.6         K:  13.3       NH4:  0.5
SO4:   64.1       HCO3:  489.1     Cl:    7.9       NO3:   0.1         F:  1.6
Sum Cations:  646.3  Sum Anions:  564.9  Cations/Anions: 1.14   Tot. P:  16.0
Tot. Al:     5.0    Ext. Al:    7.0    Fe:    0.0      Mn:    0.0    SiO2:  1.82

ID: 2B1-038   Name: (NO NAME)                       State: MI  Date: 20OCT84
Sample Type: REGULAR          Latitude: 46-30'42"N    Longitude: 86-09'10"W
Elevation:  273   Surface Temp: 10.2  Stratified: MIXED     Site Depth:   1.8
Lake Area:      6 Watershed Area:      57 WA/LA:      9.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.3   Turbidity:   0.4     Color:   15
Closed pH: 4.56        Equil. pH: 4.56            ANC:  -28.6       DOC:  3.80
Closed DIC:  0.34   Equil. DIC:  0.54     Meas. Cond:  17.4   Cal. Cond:  18.2
Ca:   25.9          Mg:   16.5     Na:    4.3         K:   7.7       NH4:  2.7
SO4:   66.8       HCO3:    0.8     Cl:    4.5       NO3:   0.6         F:  0.6
Sum Cations:   82.8  Sum Anions:   73.4  Cations/Anions: 1.13   Tot. P:  12.0
Tot. Al:     5.0    Ext. Al:   18.0    Fe:   10.0      Mn:   30.0    SiO2:  0.06

ID: 2B1-039   Name: WEST BRANCH LAKES (SW)          State: MI  Date: 20OCT84
Sample Type: REGULAR          Latitude: 46-30'38"N    Longitude: 86-06'18"W
Elevation:  267   Surface Temp: 10.7  Stratified: MIXED     Site Depth:   2.4
Lake Area:     16 Watershed Area:     122 WA/LA:      7.8 Hydro Type: DRAINAGE
Residence Time:  0.30  Secchi Depth:  2.4   Turbidity:   0.3     Color:   20
Closed pH: 4.98        Equil. pH: 4.93            ANC:   -5.6       DOC:  3.50
Closed DIC:  0.30   Equil. DIC:  0.27     Meas. Cond:  15.7   Cal. Cond:  15.7
Ca:   37.4          Mg:   21.4     Na:   11.3         K:  14.3       NH4:  2.2
SO4:   76.4       HCO3:    1.3     Cl:    4.2       NO3:   0.0         F:  0.8
Sum Cations:   98.1  Sum Anions:   82.8  Cations/Anions: 1.18   Tot. P:  13.0
Tot. Al:   108.0    Ext. Al:   55.0    Fe:   40.0      Mn:   40.0    SiO2:  0.21

ID: 2B1-040   Name: WEST BRANCH LAKES (SE)          State: MI  Date: 20OCT84
Sample Type: REGULAR          Latitude: 46-30'44"N    Longitude: 86-05'46"W
Elevation:  270   Surface Temp: 10.7  Stratified: MIXED     Site Depth:   5.5
Lake Area:      5 Watershed Area:      21 WA/LA:      4.7 Hydro Type: DRAINAGE
Residence Time:  0.99  Secchi Depth:  2.0   Turbidity:   1.1     Color:   50
Closed pH: 4.74        Equil. pH: 4.77            ANC:  -11.6       DOC:  5.60
Closed DIC:  1.05   Equil. DIC:  0.50     Meas. Cond:  16.9   Cal. Cond:  16.7
Ca:   36.4          Mg:   18.9     Na:    7.4         K:  12.5       NH4:  2.2
SO4:   64.1       HCO3:    1.2     Cl:    5.9       NO3:   0.2         F:  0.7
Sum Cations:   95.6  Sum Anions:   72.1  Cations/Anions: 1.33   Tot. P:  19.0
Tot. Al:    98.0    Ext. Al:   56.0    Fe:  180.0      Mn:   40.0    SiO2:  0.53

ID: 2B1-041   Name: TRIANGLE LAKE                   State: MI  Date: 23OCT84
Sample Type: REGULAR          Latitude: 46-31'48"N    Longitude: 86-05'37"W
Elevation:  276   Surface Temp:  9.2  Stratified: MIXED     Site Depth:   7.0
Lake Area:     20 Watershed Area:      60 WA/LA:      3.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  4.4   Turbidity:   0.4     Color:   25
Closed pH: 5.13        Equil. pH: 5.12            ANC:    9.0       DOC:  4.10
Closed DIC:  0.56   Equil. DIC:  0.18     Meas. Cond:  15.1   Cal. Cond:  15.8
Ca:   37.9          Mg:   26.3     Na:   11.3         K:  12.0       NH4:  3.3
SO4:   82.7       HCO3:    1.6     Cl:    5.9       NO3:   0.6         F:  0.8
Sum Cations:  100.2  Sum Anions:   91.7  Cations/Anions: 1.09   Tot. P:  22.0
Tot. Al:    34.0    Ext. Al:   28.0    Fe:   20.0      Mn:   30.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
                                                             State: MI  Date: 20OCT84
ID: 2B1-042   Name: LONG LAKE
Sample Type: REGULAR                 Latitude: 46-30'08"N    Longitude: 86-05'17"W
Elevation:  262   Surface Temp: 10.9  Stratified: MIXED      Site Depth:   4.3
Lake Area:       8 Watershed Area:      36 WA/LA:      4.3 Hydro Type: DRAINAGE
Residence Time:  0.82  Secchi Depth:  1.9   Turbidity:    1.0      Color:    35
Closed pH: 5.01         Equil. pH: 5.07              ANC:    -0.2          DOC:  6.20
Closed DIC:  0.54   Equil. DIC:  0.22     Meas. Cond:  11.5    Cal. Cond:  11.8
Ca:   35.4          Mg:     15.6       Na:      5.7          K:   11.3      NH4:   1.1
SO4:   50.2       HCO3:      0.8       Cl:      5.6        NO3:    0.0        F:   0.7
Sum Cations:    78.1  Sum Anions:    57.3  Cations/Anions: 1.36   Tot. P:  18.0
Tot. Al:    37.0    Ext. Al:  21.0     Fe:   100.0      Mn:    40.0     SiO2:  0.59

                                                             State: MI  Date: 20OCT84
ID: 2B1-043   Name: OWL LAKE
Sample Type: REGULAR                 Latitude: 46-30'24"N    Longitude: 86-04'20"W
Elevation:  263   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   1.2
Lake Area:      11 Watershed Area:      88 WA/LA:      8.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.5   Turbidity:    1.0      Color:    65
Closed pH: 6.00         Equil. pH: 6.26              ANC:    35.7          DOC: 12.60
Closed DIC:  0.40   Equil. DIC:  0.28     Meas. Cond:  20.0    Cal. Cond:  17.6
Ca:    95.8         Mg:     46.9       Na:     10.9          K:    9.2      NH4:   2.2
SO4:    82.0      HCO3:      7.9       Cl:      7.1        NO3:    4.3        F:   0.9
Sum Cations:   165.7  Sum Anions:   102.3  Cations/Anions: 1.62   Tot. P:  18.0
Tot. Al:    79.0    Ext. Al:  22.0     Fe:   190.0      Mn:     0.0     SiO2:  0.40

                                                             State: MI  Date: 23OCT84
ID: 2B1-044   Name: SPRUCE LAKE
Sample Type: REGULAR                 Latitude: 46-31'03"N    Longitude: 86-04'00"W
Elevation:  264   Surface Temp:  8.6  Stratified: MIXED      Site Depth:   3.0
Lake Area:       4 Watershed Area:      36 WA/LA:      8.6 Hydro Type: DRAINAGE
Residence Time:  0.34  Secchi Depth:  2.8   Turbidity:    0.7      Color:    30
Closed pH: 6.93         Equil. pH: 7.67              ANC:   142.0          DOC:  6.00
Closed DIC:  2.01   Equil. DIC:  1.72     Meas. Cond:  27.7    Cal. Cond:  30.0
Ca:  126.7          Mg:    117.6       Na:     13.0          K:   11.9      NH4:   4.4
SO4:    98.5      HCO3:    125.3       Cl:      9.9        NO3:    0.4        F:   1.1
Sum Cations:   273.9  Sum Anions:   235.2  Cations/Anions: 1.16   Tot. P:  14.0
Tot. Al:    35.0    Ext. Al:   0.0     Fe:    20.0      Mn:     0.0     SiO2:  0.66

                                                             State: MI  Date: 20OCT84
ID: 2B1-046   Name: SPRING LAKE
Sample Type: REGULAR                 Latitude: 46-29'37"N    Longitude: 86-06'59"W
Elevation:  258   Surface Temp:  8.7  Stratified: MIXED      Site Depth:   2.1
Lake Area:       5 Watershed Area:      44 WA/LA:      8.3 Hydro Type: DRAINAGE
Residence Time:  0.25  Secchi Depth:  1.7   Turbidity:    0.4      Color:    10
Closed pH: 7.53         Equil. pH: 8.27              ANC:   818.0          DOC:  8.90
Closed DIC: 10.31   Equil. DIC:  8.74     Meas. Cond:  90.7    Cal. Cond:  97.2
Ca:  615.8          Mg:    308.5       Na:     31.8          K:   15.3      NH4:   0.5
SO4:   122.0      HCO3:    697.8       Cl:      4.5        NO3:    0.0        F:   1.7
Sum Cations:   971.9  Sum Anions:   829.8  Cations/Anions: 1.17   Tot. P:  21.0
Tot. Al:    21.0    Ext. Al:   6.0     Fe:     0.0      Mn:     0.0     SiO2:  3.77

                                                             State: MI  Date: 22OCT84
ID: 2B1-047   Name: JOHNSON LAKE
Sample Type: REG/SPC/LTM/            Latitude: 46-25'30"N    Longitude: 85-02'38"W
Elevation:  252   Surface Temp: 10.1  Stratified: MIXED      Site Depth:   3.4
Lake Area:      17 Watershed Area:     137 WA/LA:      8.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.4   Turbidity:    0.3      Color:     5
Closed pH: 4.55         Equil. pH: 4.58              ANC:   -37.2          DOC:  0.50
Closed DIC:  0.25   Equil. DIC:  0.19     Meas. Cond:  27.9    Cal. Cond:  29.0
Ca:    57.4         Mg:     30.4       Na:      6.1          K:    8.7      NH4:   1.7
SO4:   133.0      HCO3:      0.3       Cl:     10.2        NO3:    4.7        F:   0.7
Sum Cations:   135.9  Sum Anions:   148.9  Cations/Anions: 0.91   Tot. P:   2.0
Tot. Al:    61.0    Ext. Al:  45.0     Fe:     0.0      Mn:   100.0     SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B1-048   Name: MCNEARNEY LAKE                 State: MI  Date: 22OCT84
Sample Type: REG/SPC/LTM/NRC/  Latitude: 46-25'35"N   Longitude: 84-57'30"W
Elevation:  264   Surface Temp: 11.1  Stratified: MIXED     Site Depth:   7.6
Lake Area:      50 Watershed Area:     199 WA/LA:     4.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  7.6   Turbidity:   0.2      Color:   10
Closed pH: 4.43       Equil. pH: 4.51              ANC:  -48.0         DOC:  0.20
Closed DIC:  0.22   Equil. DIC:  0.16    Meas. Cond:  32.6   Cal. Cond:  32.6
Ca:   58.4          Mg:    19.7       Na:     7.8        K:    6.8      NH4:  1.7
SO4:  143.9       HCO3:     0.2       Cl:     6.8      NO3:    5.1        F:  0.8
Sum Cations:  136.1  Sum Anions:  156.8  Cations/Anions: 0.87   Tot. P:   0.0
Tot. Al:  287.0    Ext. Al: 213.0    Fe:    20.0      Mn:    50.0    SiO2:  0.00

ID: 2B1-050   Name: SOLDIER LAKE                   State: MI  Date: 22OCT84
Sample Type: REGULAR           Latitude: 46-20'57"N   Longitude: 84-51'59"W
Elevation:  272   Surface Temp:  9.4  Stratified: MIXED     Site Depth:   4.3
Lake Area:       6 Watershed Area:      49 WA/LA:     8.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.9   Turbidity:   0.5      Color:   10
Closed pH: 6.50       Equil. pH: 6.73              ANC:   29.0         DOC:  2.40
Closed DIC:  0.55   Equil. DIC:  0.48    Meas. Cond:  23.3   Cal. Cond:  23.9
Ca:  101.3          Mg:    46.1       Na:    26.1        K:   10.4      NH4:  0.0
SO4:  124.3       HCO3:    28.3       Cl:    25.7      NO3:    0.0        F:  1.1
Sum Cations:  184.1  Sum Anions:  179.3  Cations/Anions: 1.03   Tot. P:   7.0
Tot. Al:   29.0    Ext. Al:   5.0    Fe:     0.0      Mn:     0.0    SiO2:  0.24

ID: 2B1-052   Name: PECK AND RYE LAKE              State: MI  Date: 22OCT84
Sample Type: REGULAR           Latitude: 46-23'50"N   Longitude: 84-58'00"W
Elevation:  276   Surface Temp:  9.3  Stratified: MIXED     Site Depth:   1.8
Lake Area:       5 Watershed Area:      39 WA/LA:     8.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.0   Turbidity:   0.5      Color:   25
Closed pH: 4.95       Equil. pH: 4.99              ANC:  -11.8         DOC:  4.00
Closed DIC:  0.73   Equil. DIC:  0.18    Meas. Cond:  14.9   Cal. Cond:  14.4
Ca:   31.9          Mg:    18.9       Na:     3.5        K:    8.7      NH4: 12.2
SO4:   61.8       HCO3:     1.5       Cl:     6.8      NO3:    1.0        F:  1.0
Sum Cations:   87.0  Sum Anions:   72.2  Cations/Anions: 1.21   Tot. P:   7.0
Tot. Al:   23.0    Ext. Al:   6.0    Fe:    40.0      Mn:    60.0    SiO2:  0.00

ID: 2B1-055   Name: DEADMAN LAKE                   State: MI  Date: 23OCT84
Sample Type: REGULAR           Latitude: 46-32'41"N   Longitude: 86-03'00"W
Elevation:  281   Surface Temp:  6.1  Stratified: MIXED     Site Depth:   1.5
Lake Area:       9 Watershed Area:     132 WA/LA:    14.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.8   Turbidity:   1.3      Color:   50
Closed pH: 7.16       Equil. pH: 7.96              ANC:  367.0         DOC: 11.30
Closed DIC:  4.38   Equil. DIC:  3.76    Meas. Cond:  43.4   Cal. Cond:  43.6
Ca:  241.5          Mg:   189.2       Na:    19.6        K:   12.0      NH4:  7.2
SO4:   39.1       HCO3:   287.7       Cl:     9.6      NO3:    0.1        F:  1.3
Sum Cations:  469.6  Sum Anions:  338.1  Cations/Anions: 1.39   Tot. P:  29.0
Tot. Al:   21.0    Ext. Al:   0.0    Fe:    40.0      Mn:     0.0    SiO2:  3.64

ID: 2B1-057   Name: HAY LAKE                       State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 46-28'46"N   Longitude: 91-17'09"W
Elevation:  318   Surface Temp:  1.9  Stratified: MIXED     Site Depth:   1.8
Lake Area:      23 Watershed Area:     355 WA/LA:    15.4 Hydro Type: DRAINAGE
Residence Time:  0.18  Secchi Depth:  1.8   Turbidity:   0.4      Color:   18
Closed pH: 7.81       Equil. pH: 8.39              ANC: 1313.6         DOC:  2.90
Closed DIC: 15.54   Equil. DIC: 16.78    Meas. Cond: 126.7   Cal. Cond: 152.5
Ca:  887.7          Mg:   376.8       Na:   113.1        K:   25.3      NH4:  1.8
SO4:   55.2       HCO3:  1438.9       Cl:    35.0      NO3:    0.0        F:  3.4
Sum Cations: 1404.7  Sum Anions: 1543.7  Cations/Anions: 0.91   Tot. P:  18.0
Tot. Al:    0.0    Ext. Al:   1.0    Fe:    40.0      Mn:    10.0    SiO2: 12.27
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B1-060   Name: CLYDE LAKE                         State: MI  Date: 20OCT84
Sample Type: REGULAR            Latitude: 46-32'30"N    Longitude: 86-10'00"W
Elevation:  270   Surface Temp:  9.1  Stratified: MIXED      Site Depth:   2.1
Lake Area:       5 Watershed Area:      21 WA/LA:      4.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.1   Turbidity:   2.2      Color:    20
Closed pH: 7.15        Equil. pH: 7.68               ANC:  218.1         DOC:  6.80
Closed DIC:  2.71   Equil. DIC:  2.54    Meas. Cond:  27.7   Cal. Cond:  26.3
Ca:  139.2            Mg:   40.3         Na:     14.8        K:  10.7       NH4:  0.5
SO4:   51.4        HCO3:  216.8        Cl:     6.5       NO3:   0.1          F:  1.0
Sum Cations:  205.6  Sum Anions:  276.2  Cations/Anions: 0.74   Tot. P:  17.0
Tot. Al:   23.0    Ext. Al:    3.0    Fe:    20.0      Mn:    10.0    SiO2:  1.86

ID: 2B1-061   Name: GOPHER LAKE                        State: MI  Date: 23OCT84
Sample Type: REGULAR            Latitude: 46-31'12"N    Longitude: 86-03'30"W
Elevation:  267   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   9.8
Lake Area:       6 Watershed Area:      41 WA/LA:      6.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.4   Turbidity:   0.6      Color:     5
Closed pH: 5.05        Equil. pH: 5.11               ANC:  -15.2         DOC:  1.60
Closed DIC:  0.78   Equil. DIC:  0.15    Meas. Cond:  12.4   Cal. Cond:  12.6
Ca:   29.9            Mg:   14.8         Na:      5.2        K:   8.3       NH4:  3.3
SO4:   60.4        HCO3:    2.1        Cl:     6.2       NO3:   0.1          F:  0.7
Sum Cations:   71.6  Sum Anions:   69.5  Cations/Anions: 1.03   Tot. P:  11.0
Tot. Al:   16.0    Ext. Al:    5.0    Fe:    30.0      Mn:    30.0    SiO2:  0.17

ID: 2B1-063   Name: FULLER LAKE                        State: MI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 46-35'15"N    Longitude: 88-47'05"W
Elevation:  424   Surface Temp:  3.4  Stratified: MIXED      Site Depth:  10.9
Lake Area:       7 Watershed Area:      18 WA/LA:      2.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.5   Turbidity:   0.8      Color:    40
Closed pH: 6.08        Equil. pH: 6.92               ANC:   59.0         DOC:  5.60
Closed DIC:  1.66   Equil. DIC:  0.59    Meas. Cond:  14.1   Cal. Cond:  13.5
Ca:   46.9            Mg:   28.8         Na:     13.0        K:  26.1       NH4:  0.6
SO4:   38.3        HCO3:   56.7        Cl:     5.6       NO3:   1.8          F:  3.9
Sum Cations:  115.9  Sum Anions:  106.4  Cations/Anions: 1.09   Tot. P:  27.0
Tot. Al:   45.0    Ext. Al:   13.0    Fe:    60.0      Mn:     0.0    SiO2:  0.21

ID: 2B1-064   Name: MALLARD LAKE                       State: MI  Date: 20OCT84
Sample Type: REGULAR            Latitude: 46-33'51"N    Longitude: 86-06'36"W
Elevation:  288   Surface Temp: 10.7  Stratified: MIXED      Site Depth:   3.0
Lake Area:       9 Watershed Area:      39 WA/LA:      4.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.6   Turbidity:   0.6      Color:    35
Closed pH: 5.06        Equil. pH: 5.11               ANC:   -5.9         DOC:  1.80
Closed DIC:  0.41   Equil. DIC:  0.15    Meas. Cond:  12.4   Cal. Cond:  26.1
Ca:  222.1            Mg:   60.0         Na:     16.1        K:  12.3       NH4:  2.7
SO4:   52.3        HCO3:    1.1        Cl:     5.9       NO3:   3.4          F:  0.6
Sum Cations:  321.3  Sum Anions:   63.3  Cations/Anions: 5.08   Tot. P:  10.0
Tot. Al:   36.0    Ext. Al:    7.0    Fe:    10.0      Mn:    10.0    SiO2:  0.32

ID: 2B1-065   Name: PENEGOR LAKE                       State: MI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 46-36'55"N    Longitude: 88-51'36"W
Elevation:  433   Surface Temp:  4.3  Stratified: MIXED      Site Depth:  16.5
Lake Area:       4 Watershed Area:      31 WA/LA:      7.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.3   Turbidity:   0.6      Color:    65
Closed pH: 5.32        Equil. pH: 5.83               ANC:   14.0         DOC:  8.20
Closed DIC:  2.11   Equil. DIC:  0.21    Meas. Cond:  18.7   Cal. Cond:  17.5
Ca:   66.9            Mg:   39.5         Na:     16.1        K:  14.1       NH4:  3.9
SO4:   84.1        HCO3:   12.2        Cl:     6.2       NO3:   0.0          F:  1.0
Sum Cations:  144.6  Sum Anions:  103.5  Cations/Anions: 1.40   Tot. P:  16.0
Tot. Al:  205.0    Ext. Al:   94.0    Fe:   400.0      Mn:    50.0    SiO2:  0.94
```

(continued)

TABLE 3-1 (continued)

```
ID: 281-066   Name: LAMBERT LAKE                     State: MI  Date: 20OCT84
Sample Type: REGULAR           Latitude: 46-30'33"N   Longitude: 86-05'08"W
Elevation:  266   Surface Temp: 10.7  Stratified: MIXED     Site Depth:   3.0
Lake Area:      15 Watershed Area:     91 WA/LA:      6.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.0  Turbidity:   0.6     Color:    15
Closed pH: 4.65       Equil. pH: 4.66             ANC:  -19.9        DOC:  1.60
Closed DIC:  0.23   Equil. DIC:  0.26    Meas. Cond:  19.4   Cal. Cond:  20.7
Ca:   35.9           Mg:   19.7       Na:    10.0        K:  13.0       NH4:  0.5
SO4:   91.4      HCO3:    0.6        Cl:     5.4      NO3:   0.0          F:  0.8
Sum Cations:  102.7  Sum Anions:    98.2  Cations/Anions: 1.05   Tot. P:  15.0
Tot. Al:  103.0    Ext. Al:  71.0    Fe:    20.0      Mn:    30.0     SiO2:  0.18

ID: 281-067   Name: SPIDER LAKE                      State: WI  Date: 06NOV84
Sample Type: REGULAR           Latitude: 46-32'40"N   Longitude: 91-13'44"W
Elevation:  328   Surface Temp:  3.1  Stratified: MIXED     Site Depth:   3.4
Lake Area:      27 Watershed Area:    477 WA/LA:     18.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.9  Turbidity:   0.9     Color:    18
Closed pH: 6.61       Equil. pH: 7.03             ANC:   68.0        DOC:  6.90
Closed DIC:  0.87   Equil. DIC:  0.69    Meas. Cond:  14.5   Cal. Cond:  13.4
Ca:   50.4           Mg:   54.3       Na:    20.4        K:   8.4       NH4:  0.6
SO4:   36.9      HCO3:   49.4        Cl:     7.3      NO3:   0.0          F:  1.0
Sum Cations:  134.5  Sum Anions:    94.6  Cations/Anions: 1.42   Tot. P:  27.0
Tot. Al:   17.0    Ext. Al:   2.0    Fe:    30.0      Mn:     0.0     SiO2:  0.00

ID: 281-068   Name: EWATT LAKE                       State: MI  Date: 20OCT84
Sample Type: REGULAR           Latitude: 46-33'00"N   Longitude: 86-10'48"W
Elevation:  272   Surface Temp: 10.1  Stratified: MIXED     Site Depth:   3.7
Lake Area:       8 Watershed Area:     78 WA/LA:      9.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.1  Turbidity:   0.6     Color:    15
Closed pH: 7.29       Equil. pH: 7.78             ANC:  270.8        DOC:  6.50
Closed DIC:  3.39   Equil. DIC:  3.16    Meas. Cond:  25.1   Cal. Cond:  25.6
Ca:   61.9           Mg:   21.4       Na:     6.5        K:  10.7       NH4: 11.6
SO4:   69.7      HCO3:  289.1        Cl:     3.9      NO3:   0.0          F:  1.0
Sum Cations:  112.2  Sum Anions:   364.4  Cations/Anions: 0.31   Tot. P:  10.0
Tot. Al:    9.0    Ext. Al:  14.0    Fe:    40.0      Mn:    40.0     SiO2:  1.06

ID: 281-070   Name: BEAR LAKE                        State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 46-29'29"N   Longitude: 91-18'11"W
Elevation:  319   Surface Temp:  4.5  Stratified: MIXED     Site Depth:   3.0
Lake Area:      11 Watershed Area:    344 WA/LA:     30.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.0  Turbidity:   0.3     Color:    12
Closed pH: 7.54       Equil. pH: 8.48             ANC: 1483.7        DOC:  1.40
Closed DIC: 18.64   Equil. DIC: 18.03    Meas. Cond: 143.1   Cal. Cond: 165.4
Ca: 1021.5           Mg:  438.4       Na:    87.4        K:  24.0       NH4:  1.3
SO4:   82.2      HCO3: 1494.9        Cl:    14.4      NO3:   1.3          F:  3.2
Sum Cations: 1572.7  Sum Anions:  1606.6  Cations/Anions: 0.98   Tot. P:   4.0
Tot. Al:    2.0    Ext. Al:   3.0    Fe:    20.0      Mn:    20.0     SiO2: 15.47

ID: 282-001   Name: CANTHOOK LAKE                    State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 46-28'22"N   Longitude: 91-21'20"W
Elevation:  339   Surface Temp:  5.3  Stratified: MIXED     Site Depth:  11.0
Lake Area:      16 Watershed Area:    158 WA/LA:      9.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.9  Turbidity:   0.6     Color:    13
Closed pH: 6.90       Equil. pH: 7.25             ANC:  100.4        DOC:  3.20
Closed DIC:  1.44   Equil. DIC:  0.97    Meas. Cond:  13.7   Cal. Cond:  16.3
Ca:   87.8           Mg:   40.3       Na:    13.9        K:  12.0       NH4:  0.0
SO4:   38.5      HCO3:   74.3        Cl:     9.3      NO3:   1.7          F:  1.1
Sum Cations:  154.2  Sum Anions:   124.9  Cations/Anions: 1.23   Tot. P:   9.0
Tot. Al:    2.0    Ext. Al:   2.0    Fe:    20.0      Mn:    10.0     SiO2:  0.60
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B2-004   Name: WRIGHT LAKE                          State: WI  Date: 05NOV84
Sample Type: REGULAR              Latitude: 46-31'15"N    Longitude: 91-28'45"W
Elevation:  351   Surface Temp:  2.8  Stratified: MIXED       Site Depth:   3.6
Lake Area:        8 Watershed Area:     205 WA/LA:     25.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.5   Turbidity:   1.1      Color:    42
Closed pH: 6.14       Equil. pH: 6.80                ANC:   50.6          DOC:  7.90
Closed DIC:  0.96   Equil. DIC:  0.18    Meas. Cond:   8.8   Cal. Cond:  10.8
Ca:   45.4          Mg:    32.9        Na:    12.2          K:  14.3        NH4:  0.0
SO4:   26.4        HCO3:   45.9        Cl:     3.7        NO3:    0.0          F:  0.7
Sum Cations:  105.5  Sum Anions:    76.8  Cations/Anions: 1.38   Tot. P:  14.0
Tot. Al:    52.0    Ext. Al:  22.0     Fe:   80.0       Mn:    20.0     SiO2:  0.18

ID: 2B2-005   Name: LAKE RUTH                            State: WI  Date: 05NOV84
Sample Type: REGULAR              Latitude: 46-30'15"N    Longitude: 91-25'30"W
Elevation:  351   Surface Temp:  4.7  Stratified: MIXED       Site Depth:   6.7
Lake Area:       26 Watershed Area:     539 WA/LA:     20.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.9   Turbidity:   1.2      Color:    16
Closed pH: 7.71       Equil. pH: 8.18                ANC:  786.1          DOC:  2.90
Closed DIC:  9.50   Equil. DIC: 10.08    Meas. Cond:  82.3   Cal. Cond:  96.0
Ca:  564.9          Mg:   255.0        Na:    53.9          K:  10.2        NH4:  2.7
SO4:   75.0        HCO3:  830.8        Cl:    24.3        NO3:    0.0          F:  2.1
Sum Cations:  886.7  Sum Anions:   936.5  Cations/Anions: 0.95   Tot. P:   9.0
Tot. Al:    12.0    Ext. Al:   1.0     Fe:  100.0       Mn:    10.0     SiO2:  2.75

ID: 2B2-007   Name: TOIVOLA LAKES (WEST)                 State: MI  Date: 18OCT84
Sample Type: REGULAR              Latitude: 46-59'14"N    Longitude: 88-48'01"W
Elevation:  397   Surface Temp: 12.2  Stratified: WEAK        Site Depth:  10.4
Lake Area:        6 Watershed Area:      44 WA/LA:      7.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.6   Turbidity:   0.8      Color:    10
Closed pH: 5.43       Equil. pH: 5.65                ANC:    1.0          DOC:  2.50
Closed DIC:  0.59   Equil. DIC:  0.12    Meas. Cond:   8.3   Cal. Cond:   8.6
Ca:   23.5          Mg:    14.8        Na:     4.3          K:   7.7        NH4:  0.0
SO4:   47.7        HCO3:    3.8        Cl:     2.8        NO3:    0.0          F:  0.6
Sum Cations:   54.3  Sum Anions:    54.9  Cations/Anions: 0.99   Tot. P:   0.0
Tot. Al:    20.0    Ext. Al:   3.0     Fe:   20.0       Mn:    10.0     SiO2:  0.08

ID: 2B2-008   Name: HALL LAKE                            State: MI  Date: 18OCT84
Sample Type: REGULAR              Latitude: 46-59'40"N    Longitude: 88-45'34"W
Elevation:  378   Surface Temp: 11.9  Stratified: STRONG      Site Depth:  13.4
Lake Area:        6 Watershed Area:     127 WA/LA:     22.7 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.6   Turbidity:   0.4      Color:    50
Closed pH: 6.29       Equil. pH: 6.85                ANC:   55.5          DOC:  7.15
Closed DIC:  1.03   Equil. DIC:  0.46    Meas. Cond:  13.6   Cal. Cond:  12.4
Ca:   69.4          Mg:    31.3        Na:     9.8          K:  13.3        NH4:  0.0
SO4:   38.1        HCO3:   34.4        Cl:     3.9        NO3:    0.1          F:  0.7
Sum Cations:  124.2  Sum Anions:    77.3  Cations/Anions: 1.61   Tot. P:  10.0
Tot. Al:    53.5    Ext. Al:  12.0     Fe:   85.0       Mn:    15.0     SiO2:  0.00

ID: 2B2-009   Name: DONKEN LAKE                          State: MI  Date: 18OCT84
Sample Type: REGULAR              Latitude: 46-55'53"N    Longitude: 88-47'58"W
Elevation:  387   Surface Temp: 11.9  Stratified: MIXED       Site Depth:   3.7
Lake Area:        6 Watershed Area:     269 WA/LA:     47.2 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  1.9   Turbidity:   1.0      Color:    50
Closed pH: 7.09       Equil. pH: 7.94                ANC:  397.0          DOC: 11.60
Closed DIC:  5.06   Equil. DIC:  4.19    Meas. Cond:  58.9   Cal. Cond:  57.2
Ca:  344.3          Mg:   117.6        Na:   106.6          K:  20.5        NH4:  0.0
SO4:   31.2        HCO3:  329.6        Cl:    83.2        NO3:    0.1          F:  1.2
Sum Cations:  589.1  Sum Anions:   445.7  Cations/Anions: 1.32   Tot. P:  14.0
Tot. Al:    25.0    Ext. Al:   4.0     Fe:   80.0       Mn:     0.0     SiO2:  1.63
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B2-010   Name: (NO NAME)                           State: MI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 46-52'29"N    Longitude: 88-52'07"W
Elevation:  372   Surface Temp:  2.4  Stratified: MIXED       Site Depth:   6.1
Lake Area:        4 Watershed Area:     104 WA/LA:    26.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.4  Turbidity:   0.5       Color:   85
Closed pH: 6.20        Equil. pH: 6.72              ANC:   64.0        DOC:  9.40
Closed DIC:  0.98   Equil. DIC:  0.55    Meas. Cond:  40.5   Cal. Cond:  42.1
Ca:  107.3           Mg:    51.8        Na:  172.7          K:  14.8      NH4:   1.7
SO4:   44.1       HCO3:   30.6      Cl:  233.3        NO3:   2.1          F:   0.7
Sum Cations:  348.9  Sum Anions:  310.9  Cations/Anions: 1.12   Tot. P:  19.0
Tot. Al:  115.0    Ext. Al:  36.0    Fe:  200.0     Mn:   20.0    SiO2:  1.97

ID: 2B2-012   Name: (NO NAME)                           State: MI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 46-50'32"N    Longitude: 88-52'10"W
Elevation:  361   Surface Temp:  4.0  Stratified: MIXED       Site Depth:  11.2
Lake Area:        4 Watershed Area:      31 WA/LA:     7.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.9  Turbidity:   0.9       Color:   30
Closed pH: 5.71        Equil. pH: 6.14              ANC:   20.0        DOC:  4.00
Closed DIC:  1.10   Equil. DIC:  0.30    Meas. Cond:   9.9   Cal. Cond:   9.9
Ca:   31.9           Mg:    19.7        Na:    8.7          K:  12.0      NH4:   2.8
SO4:   44.8       HCO3:   15.8      Cl:    6.2        NO3:   0.1          F:   0.5
Sum Cations:   76.9  Sum Anions:   67.4  Cations/Anions: 1.14   Tot. P:  22.0
Tot. Al:   30.0    Ext. Al:   8.0    Fe:   70.0     Mn:   20.0    SiO2:  0.41

ID: 2B2-016   Name: KING LAKE                           State: MI  Date: 17OCT84
Sample Type: REGULAR            Latitude: 46-31'14"N    Longitude: 88-24'30"W
Elevation:  504   Surface Temp: 12.1  Stratified: MIXED       Site Depth:   6.1
Lake Area:      202 Watershed Area:    2890 WA/LA:    14.3 Hydro Type: DRAINAGE
Residence Time:  0.47  Secchi Depth:  0.4  Turbidity:   1.0       Color:  130
Closed pH: 6.88        Equil. pH: 7.43              ANC:  164.0        DOC: 16.20
Closed DIC:  1.68   Equil. DIC:  1.29    Meas. Cond:  29.0   Cal. Cond:  27.3
Ca:  195.1           Mg:    79.8        Na:   25.7          K:   6.9      NH4:   0.0
SO4:   61.8       HCO3:   89.9      Cl:    6.8        NO3:   0.1          F:   1.8
Sum Cations:  307.7  Sum Anions:  160.4  Cations/Anions: 1.92   Tot. P:  27.0
Tot. Al:  134.0    Ext. Al:  17.0    Fe:  220.0     Mn:    0.0    SiO2:  5.94

ID: 2B2-018   Name: (NO NAME)                           State: MI  Date: 14OCT84
Sample Type: REGULAR            Latitude: 46-39'51"N    Longitude: 88-09'37"W
Elevation:  540   Surface Temp:  9.6  Stratified: WEAK        Site Depth:  10.1
Lake Area:        4 Watershed Area:      44 WA/LA:    10.0 Hydro Type: DRAINAGE
Residence Time:  1.08  Secchi Depth:  1.4  Turbidity:   0.8       Color:   60
Closed pH: 6.05        Equil. pH: 6.96              ANC:   54.0        DOC:  8.10
Closed DIC:  1.55   Equil. DIC:  0.57    Meas. Cond:  19.4   Cal. Cond:  19.4
Ca:  101.3           Mg:    46.9        Na:   18.3          K:   6.9      NH4:   0.0
SO4:   79.9       HCO3:   56.8      Cl:    3.9        NO3:   0.6          F:   1.1
Sum Cations:  173.8  Sum Anions:  142.4  Cations/Anions: 1.22   Tot. P:  13.0
Tot. Al:  145.0    Ext. Al:  46.0    Fe:  110.0     Mn:   10.0    SiO2:  1.08

ID: 2B2-019   Name: SECTION 5 LAKE                      State: MI  Date: 17OCT84
Sample Type: REGULAR            Latitude: 46-40'14"N    Longitude: 88-05'05"W
Elevation:  558   Surface Temp: 12.3  Stratified: MIXED       Site Depth:   3.7
Lake Area:        9 Watershed Area:      88 WA/LA:    10.3 Hydro Type: DRAINAGE
Residence Time:  0.38  Secchi Depth:  1.9  Turbidity:   1.4       Color:   65
Closed pH: 6.67        Equil. pH: 7.13              ANC:  132.0        DOC:  8.90
Closed DIC:  1.60   Equil. DIC:  1.14    Meas. Cond:  27.0   Cal. Cond:  26.8
Ca:  160.2           Mg:    70.7        Na:   21.3          K:   8.7      NH4:   0.0
SO4:   91.2       HCO3:   83.2      Cl:    7.6        NO3:   1.5          F:   1.1
Sum Cations:  261.2  Sum Anions:  184.6  Cations/Anions: 1.41   Tot. P:   7.0
Tot. Al:  108.0    Ext. Al:  28.0    Fe:   50.0     Mn:    0.0    SiO2:  0.83
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B2-020   Name: LAKE GORDON                       State: MI  Date: 17OCT84
Sample Type: REGULAR             Latitude: 46-41'53"N    Longitude: 88-02'16"W
Elevation:  540   Surface Temp: 11.8  Stratified: WEAK       Site Depth:   9.1
Lake Area:       8 Watershed Area:     145 WA/LA:      17.5 Hydro Type: DRAINAGE
Residence Time:  0.59  Secchi Depth:  2.1   Turbidity:   0.8      Color:   55
Closed pH: 6.66        Equil. pH: 7.12               ANC:  103.0        DOC:  8.00
Closed DIC:  1.28   Equil. DIC:  0.96    Meas. Cond:  22.8   Cal. Cond:  23.1
Ca:  138.2           Mg:    57.6       Na:    17.4       K:    5.1      NH4:  0.0
SO4:   83.9       HCO3:    70.1      Cl:     7.3      NO3:    0.4        F:  1.1
Sum Cations:  218.5  Sum Anions:   162.8  Cations/Anions: 1.34   Tot. P:   1.0
Tot. Al:  118.0    Ext. Al:  34.0     Fe:    70.0      Mn:     0.0    SiO2:  1.22

ID: 2B2-021   Name: WHITE DEER LAKE                   State: MI  Date: 17OCT84
Sample Type: REGULAR             Latitude: 46-40'30"N    Longitude: 88-00'00"W
Elevation:  528   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   2.7
Lake Area:      34 Watershed Area:     231 WA/LA:       6.9 Hydro Type: DRAINAGE
Residence Time:  0.40  Secchi Depth:  2.2   Turbidity:   0.9      Color:   30
Closed pH: 7.26        Equil. pH: 7.62               ANC:  240.0        DOC:  6.90
Closed DIC:  2.77   Equil. DIC:  2.63    Meas. Cond:  33.8   Cal. Cond:  34.5
Ca:  219.1           Mg:    88.8       Na:    19.6       K:    6.6      NH4:  0.0
SO4:   71.0       HCO3:   198.8      Cl:     8.2      NO3:    0.2        F:  1.1
Sum Cations:  334.2  Sum Anions:   279.5  Cations/Anions: 1.20   Tot. P:   7.0
Tot. Al:   68.0    Ext. Al:  15.0     Fe:    20.0      Mn:     0.0    SiO2:  2.92

ID: 2B2-024   Name: (NO NAME)                         State: MI  Date: 14OCT84
Sample Type: REGULAR             Latitude: 46-38'05"N    Longitude: 88-12'32"W
Elevation:  546   Surface Temp: 10.5  Stratified: MIXED      Site Depth:   5.8
Lake Area:       8 Watershed Area:      44 WA/LA:       5.4 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.7   Turbidity:   0.8      Color:   60
Closed pH: 5.75        Equil. pH: 6.38               ANC:   37.4        DOC:  8.40
Closed DIC:  1.25   Equil. DIC:  0.26    Meas. Cond:  18.0   Cal. Cond:  16.7
Ca:   79.8           Mg:    46.9       Na:    15.2       K:    8.7      NH4:  0.0
SO4:   79.1       HCO3:    19.0      Cl:     4.5      NO3:    0.4        F:  1.1
Sum Cations:  152.1  Sum Anions:   104.0  Cations/Anions: 1.46   Tot. P:   1.0
Tot. Al:  108.0    Ext. Al:  41.0     Fe:    90.0      Mn:    20.0    SiO2:  1.77

ID: 2B2-026   Name: CLAIR LAKE                        State: MI  Date: 14OCT84
Sample Type: REGULAR             Latitude: 46-37'32"N    Longitude: 88-11'25"W
Elevation:  527   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   9.4
Lake Area:      26 Watershed Area:     132 WA/LA:       5.1 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.5   Turbidity:   0.8      Color:   60
Closed pH: 6.06        Equil. pH: 6.62               ANC:   40.0        DOC:  6.70
Closed DIC:  0.77   Equil. DIC:  0.32    Meas. Cond:  18.8   Cal. Cond:  17.5
Ca:   83.3           Mg:    49.4       Na:    18.3       K:    8.4      NH4:  0.0
SO4:   83.9       HCO3:    24.9      Cl:     3.7      NO3:    0.4        F:  1.1
Sum Cations:  160.1  Sum Anions:   114.0  Cations/Anions: 1.40   Tot. P:  15.0
Tot. Al:  119.0    Ext. Al:  41.0     Fe:   180.0      Mn:    30.0    SiO2:  1.69

ID: 2B2-029   Name: LITTLE WHITE GOAT LAKE            State: MI  Date: 17OCT84
Sample Type: REGULAR             Latitude: 46-35'56"N    Longitude: 88-04'16"W
Elevation:  507   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   3.0
Lake Area:      27 Watershed Area:     106 WA/LA:       3.9 Hydro Type: DRAINAGE
Residence Time:  0.69  Secchi Depth:  1.1   Turbidity:   2.2      Color:   35
Closed pH: 6.62        Equil. pH: 7.27               ANC:  101.0        DOC:  7.30
Closed DIC:  1.45   Equil. DIC:  0.97    Meas. Cond:  25.8   Cal. Cond:  25.4
Ca:  121.3           Mg:    68.3       Na:    20.4       K:   13.3      NH4:  0.0
SO4:  102.0       HCO3:    71.6      Cl:    12.4      NO3:    1.7        F:  1.3
Sum Cations:  223.6  Sum Anions:   189.0  Cations/Anions: 1.18   Tot. P:  14.0
Tot. Al:   64.0    Ext. Al:   4.0     Fe:    50.0      Mn:     0.0    SiO2:  1.04
```

(continued)

TABLE 3-1 (continued)

```
ID: 282-031   Name: DISHNO LAKE                       State: MI  Date: 13OCT84
Sample Type: REGULAR           Latitude: 46-37'30"N    Longitude: 87-55'53"W
Elevation:  533   Surface Temp: 14.7  Stratified: MIXED     Site Depth:    0.9
Lake Area:      44 Watershed Area:     334 WA/LA:      7.6 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  1.0   Turbidity:  0.4     Color:    65
Closed pH: 7.12      Equil. pH: 7.53             ANC:  155.0        DOC: 13.10
Closed DIC:  1.55   Equil. DIC:  1.48   Meas. Cond:  35.0   Cal. Cond:   35.9
Ca:  222.6          Mg:  108.6      Na:   24.8       K:   7.4      NH4:    0.0
SO4:  115.8       HCO3:  107.7      Cl:   11.6     NO3:   0.0        F:    1.8
Sum Cations:  363.5  Sum Anions:  236.9  Cations/Anions: 1.53   Tot. P:   18.0
Tot. Al:  102.0   Ext. Al:  29.0    Fe:   50.0     Mn:    0.0    SiO2:   1.62

ID: 282-032   Name: (NO NAME)                         State: MI  Date: 14OCT84
Sample Type: REGULAR           Latitude: 46-35'15"N    Longitude: 88-09'00"W
Elevation:  523   Surface Temp: 14.2  Stratified: MIXED     Site Depth:    1.2
Lake Area:      21 Watershed Area:     104 WA/LA:      5.0 Hydro Type: DRAINAGE
Residence Time:  0.23  Secchi Depth:  0.8   Turbidity:  1.5     Color:   120
Closed pH: 5.90      Equil. pH: 6.28             ANC:   55.0        DOC: 15.00
Closed DIC:  0.66   Equil. DIC:  0.20   Meas. Cond:  23.7   Cal. Cond:   22.0
Ca:  115.3          Mg:   65.8      Na:   28.7       K:  11.3      NH4:    0.0
SO4:   95.8       HCO3:   12.9      Cl:    7.9     NO3:   0.7        F:    1.4
Sum Cations:  222.3  Sum Anions:  118.7  Cations/Anions: 1.87   Tot. P:   20.0
Tot. Al:  146.0   Ext. Al:  47.0    Fe:  280.0     Mn:   60.0    SiO2:   2.45

ID: 282-033   Name: LOG LAKE                          State: MI  Date: 13OCT84
Sample Type: REGULAR           Latitude: 46-35'15"N    Longitude: 87-55'45"W
Elevation:  519   Surface Temp: 13.1  Stratified: WEAK      Site Depth:   12.2
Lake Area:      72 Watershed Area:     435 WA/LA:      6.1 Hydro Type: DRAINAGE
Residence Time:  1.98  Secchi Depth:  2.0   Turbidity:  0.8     Color:    50
Closed pH: 6.37      Equil. pH: 6.72             ANC:   48.0        DOC:  7.45
Closed DIC:  0.55   Equil. DIC:  0.33   Meas. Cond:  21.5   Cal. Cond:   21.6
Ca:  107.8          Mg:   58.0      Na:   18.3       K:   8.7      NH4:    0.0
SO4:  101.3       HCO3:   23.0      Cl:   14.8     NO3:   0.0        F:    1.4
Sum Cations:  193.3  Sum Anions:  140.5  Cations/Anions: 1.38   Tot. P:   16.5
Tot. Al:  106.0   Ext. Al:  32.0    Fe:  130.0     Mn:    0.0    SiO2:   0.77

ID: 282-034   Name: LAKE EVA                          State: MI  Date: 18OCT84
Sample Type: REGULAR           Latitude: 47-01'15"N    Longitude: 88-45'52"W
Elevation:  357   Surface Temp: 12.5  Stratified: MIXED     Site Depth:    7.0
Lake Area:      27 Watershed Area:     223 WA/LA:      8.3 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  5.1   Turbidity:  0.3     Color:    10
Closed pH: 7.52      Equil. pH: 8.08             ANC:  502.0        DOC:  2.80
Closed DIC:  5.99   Equil. DIC:  5.75   Meas. Cond:  56.5   Cal. Cond:   58.1
Ca:  380.7          Mg:  125.0      Na:   24.4       K:  11.0      NH4:    0.6
SO4:   48.9       HCO3:  465.3      Cl:   25.7     NO3:   0.0        F:    1.1
Sum Cations:  541.7  Sum Anions:  542.9  Cations/Anions: 1.00   Tot. P:    2.0
Tot. Al:   41.0   Ext. Al:   4.0    Fe:   20.0     Mn:    0.0    SiO2:   1.00

ID: 282-038   Name: OTTER LAKE                        State: MI  Date: 24OCT84
Sample Type: REGULAR           Latitude: 46-35'45"N    Longitude: 85-39'32"W
Elevation:  230   Surface Temp:  7.5  Stratified: MIXED     Site Depth:    3.7
Lake Area:       6 Watershed Area:     117 WA/LA:     21.3 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  1.8   Turbidity:  0.4     Color:    25
Closed pH: 6.81      Equil. pH: 7.45             ANC:  140.0        DOC:  7.40
Closed DIC:  1.77   Equil. DIC:  1.41   Meas. Cond:  23.2   Cal. Cond:   23.0
Ca:  131.2          Mg:   64.2      Na:   26.5       K:  10.2      NH4:    0.6
SO4:   52.3       HCO3:  106.3      Cl:    7.6     NO3:   0.2        F:    1.2
Sum Cations:  232.8  Sum Anions:  167.6  Cations/Anions: 1.39   Tot. P:   13.0
Tot. Al:   12.0   Ext. Al:   3.0    Fe:   30.0     Mn:    0.0    SiO2:   0.85
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B2-041   Name: SLEEPER LAKE                         State: MI  Date: 23OCT84
Sample Type: REGULAR           Latitude: 46-30'33"N    Longitude: 85-33'07"W
Elevation:  244   Surface Temp:  6.3  Stratified: MIXED      Site Depth:   0.9
Lake Area:       8 Watershed Area:    479 WA/LA:    58.4 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  0.9   Turbidity:   1.5      Color:   60
Closed pH: 4.71       Equil. pH: 4.70               ANC:   -18.0       DOC: 13.80
Closed DIC:  0.49  Equil. DIC:  0.17    Meas. Cond:  17.9   Cal. Cond:  17.4
Ca:   40.9         Mg:   30.4        Na:     8.7         K:   4.0      NH4:  4.4
SO4:   43.3       HCO3:    0.8        Cl:     8.7       NO3:   1.3        F:  0.9
Sum Cations:  111.4  Sum Anions:   55.1  Cations/Anions: 2.02   Tot. P:  14.0
Tot. Al:  121.0     Ext. Al:  33.0     Fe:  180.0      Mn:   20.0    SiO2:  0.00

ID: 2B2-043   Name: BASS LAKE                            State: MI  Date: 24OCT84
Sample Type: REG/SPC/LTM/      Latitude: 46-27'50"N    Longitude: 85-43'00"W
Elevation:  273   Surface Temp: 10.7  Stratified: MIXED      Site Depth:  21.9
Lake Area:      58 Watershed Area:    280 WA/LA:     4.8 Hydro Type: DRAINAGE
Residence Time:  3.84  Secchi Depth:  4.2   Turbidity:   0.5      Color:   10
Closed pH: 6.68       Equil. pH: 7.43               ANC:   121.0       DOC:  2.60
Closed DIC:  2.02  Equil. DIC:  1.44    Meas. Cond:  21.8   Cal. Cond:  23.1
Ca:  109.8         Mg:   57.6        Na:    17.4         K:  11.4      NH4:  2.2
SO4:   67.7       HCO3:  124.2        Cl:     7.3       NO3:   0.7        F:  0.9
Sum Cations:  198.5  Sum Anions:  200.9  Cations/Anions: 0.99   Tot. P:  12.0
Tot. Al:   10.0     Ext. Al:   1.0     Fe:   50.0      Mn:   20.0    SiO2:  0.06

ID: 2B2-044   Name: QUINLAN LAKE                         State: MI  Date: 23OCT84
Sample Type: REGULAR           Latitude: 46-25'39"N    Longitude: 85-46'31"W
Elevation:  259   Surface Temp: 10.1  Stratified: MIXED      Site Depth:   8.8
Lake Area:       5 Watershed Area:     39 WA/LA:     8.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.0   Turbidity:   0.7      Color:   18
Closed pH: 5.23       Equil. pH: 5.21               ANC:     4.6       DOC:  3.80
Closed DIC:  1.06  Equil. DIC:  0.17    Meas. Cond:   9.8   Cal. Cond:   9.8
Ca:   25.2         Mg:   15.6        Na:     3.5         K:   9.9      NH4:  8.9
SO4:   40.9       HCO3:    4.7        Cl:     5.5       NO3:   0.1        F:  0.7
Sum Cations:   68.7  Sum Anions:   51.9  Cations/Anions: 1.32   Tot. P:  18.5
Tot. Al:   10.0     Ext. Al:   1.5     Fe:   40.0      Mn:   30.0    SiO2:  0.34

ID: 2B2-049   Name: CRANBERRY LAKE                       State: MI  Date: 20OCT84
Sample Type: REGULAR           Latitude: 46-27'06"N    Longitude: 86-11'02"W
Elevation:  258   Surface Temp: 10.5  Stratified: STRONG     Site Depth:  12.2
Lake Area:       5 Watershed Area:     21 WA/LA:     4.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.2   Turbidity:   1.2      Color:   25
Closed pH: 5.10       Equil. pH: 5.17               ANC:     0.4       DOC:  5.90
Closed DIC:  0.79  Equil. DIC:  0.35    Meas. Cond:  10.6   Cal. Cond:  10.7
Ca:   33.4         Mg:   18.1        Na:     4.3         K:   9.7      NH4:  1.1
SO4:   46.2       HCO3:    2.0        Cl:     6.2       NO3:   0.1        F:  0.7
Sum Cations:   73.7  Sum Anions:   55.3  Cations/Anions: 1.33   Tot. P:  39.0
Tot. Al:   16.0     Ext. Al:  10.0     Fe:   50.0      Mn:   40.0    SiO2:  0.18

ID: 2B2-051   Name: DEADMANS LAKE                        State: MI  Date: 23OCT84
Sample Type: REGULAR           Latitude: 46-26'26"N    Longitude: 85-41'47"W
Elevation:  262   Surface Temp: 10.2  Stratified: WEAK       Site Depth:  16.2
Lake Area:      12 Watershed Area:    179 WA/LA:    14.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.5   Turbidity:   0.5      Color:   10
Closed pH: 5.47       Equil. pH: 5.92               ANC:     7.3       DOC:  3.30
Closed DIC:  0.74  Equil. DIC:  0.22    Meas. Cond:  12.5   Cal. Cond:  12.6
Ca:   40.9         Mg:   20.6        Na:     6.5         K:  14.7      NH4:  2.2
SO4:   65.8       HCO3:    6.3        Cl:     6.5       NO3:   3.1        F:  0.7
Sum Cations:   88.3  Sum Anions:   82.3  Cations/Anions: 1.07   Tot. P:  15.0
Tot. Al:   18.0     Ext. Al:   0.0     Fe:   20.0      Mn:   20.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B2-052   Name: (NO NAME)                        State: MI  Date: 14OCT84
Sample Type: REGULAR            Latitude: 46-36'49"N    Longitude: 88-15'16"W
Elevation:  527   Surface Temp: 10.8  Stratified: MIXED      Site Depth:   3.7
Lake Area:       9 Watershed Area:     114 WA/LA:     13.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.9   Turbidity:   0.7     Color:  115
Closed pH: 6.45       Equil. pH: 7.01               ANC:   88.0       DOC: 10.80
Closed DIC:  1.14   Equil. DIC:  0.69    Meas. Cond:  24.4   Cal. Cond:  21.8
Ca:  129.7          Mg:    67.5        Na:    23.5          K:  10.7     NH4:  0.0
SO4:   69.7       HCO3:    54.6        Cl:     5.4        NO3:   0.1       F:  0.9
Sum Cations:  231.7  Sum Anions:   130.7  Cations/Anions: 1.77   Tot. P:  20.0
Tot. Al:  112.0     Ext. Al:  28.0     Fe:  120.0       Mn:   10.0    SiO2:  0.14


ID: 2B2-053   Name: VAN LAKE                         State: MI  Date: 14OCT84
Sample Type: REGULAR            Latitude: 46-35'55"N    Longitude: 88-13'35"W
Elevation:  536   Surface Temp: 13.4  Stratified: MIXED      Site Depth:   1.5
Lake Area:      22 Watershed Area:     129 WA/LA:      6.0 Hydro Type: DRAINAGE
Residence Time:  0.25  Secchi Depth:  0.9   Turbidity:   2.4     Color:   70
Closed pH: 6.36       Equil. pH: 6.90               ANC:   74.0       DOC:  9.40
Closed DIC:  1.02   Equil. DIC:  0.52    Meas. Cond:  22.7   Cal. Cond:  21.8
Ca:  107.3          Mg:    62.5        Na:    25.2          K:  11.5     NH4:  0.0
SO4:   88.1       HCO3:    44.9        Cl:     6.8        NO3:   2.5       F:  1.2
Sum Cations:  207.0  Sum Anions:   143.4  Cations/Anions: 1.44   Tot. P:  34.0
Tot. Al:  129.0     Ext. Al:  30.0     Fe:  110.0       Mn:   10.0    SiO2:  1.75


ID: 2B2-054   Name: (NO NAME)                        State: MI  Date: 14OCT84
Sample Type: REGULAR            Latitude: 46-39'37"N    Longitude: 88-12'00"W
Elevation:  552   Surface Temp: 10.5  Stratified: STRONG     Site Depth:  11.9
Lake Area:       5 Watershed Area:      21 WA/LA:      4.6 Hydro Type: DRAINAGE
Residence Time:  2.44  Secchi Depth:  1.1   Turbidity:   0.6     Color:   65
Closed pH: 6.02       Equil. pH: 6.82               ANC:   59.0       DOC:  9.20
Closed DIC:  1.59   Equil. DIC:  0.52    Meas. Cond:  17.7   Cal. Cond:  17.0
Ca:   87.8          Mg:    38.7        Na:    15.2          K:  15.1     NH4:  0.0
SO4:   58.9       HCO3:    56.8        Cl:     5.4        NO3:   0.3       F:  1.2
Sum Cations:  157.3  Sum Anions:   122.6  Cations/Anions: 1.28   Tot. P:  18.0
Tot. Al:  136.0     Ext. Al:  54.0     Fe:  150.0       Mn:   50.0    SiO2:  0.59


ID: 2B2-055   Name: (NO NAME)                        State: MI  Date: 20OCT84
Sample Type: REGULAR            Latitude: 46-28'05"N    Longitude: 86-11'30"W
Elevation:  261   Surface Temp:  8.8  Stratified: MIXED      Site Depth:   2.1
Lake Area:       5 Watershed Area:      18 WA/LA:      3.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.1   Turbidity:   1.3     Color:   25
Closed pH: 4.55       Equil. pH: 4.57               ANC:  -25.2       DOC:  7.50
Closed DIC:  0.35   Equil. DIC:  0.23    Meas. Cond:  16.1   Cal. Cond:  20.8
Ca:   36.9          Mg:    18.1        Na:     6.1          K:   6.4     NH4:  4.4
SO4:   84.0       HCO3:     0.6        Cl:     3.4        NO3:   1.2       F:  0.7
Sum Cations:   98.8  Sum Anions:    89.6  Cations/Anions: 1.10   Tot. P:  22.0
Tot. Al:  107.0     Ext. Al:  53.0     Fe:   60.0       Mn:   30.0    SiO2:  0.46


ID: 2B2-060   Name: (NO NAME)                        State: MI  Date: 18OCT84
Sample Type: REGULAR            Latitude: 46-55'19"N    Longitude: 88-48'30"W
Elevation:  387   Surface Temp: 11.7  Stratified: WEAK       Site Depth:   7.0
Lake Area:       7 Watershed Area:      49 WA/LA:      7.4 Hydro Type: DRAINAGE
Residence Time:  0.98  Secchi Depth:  2.4   Turbidity:   0.4     Color:   70
Closed pH: 6.67       Equil. pH: 7.78               ANC:  276.0       DOC:  9.70
Closed DIC:  4.52   Equil. DIC:  2.93    Meas. Cond:  44.8   Cal. Cond:  44.7
Ca:  239.0          Mg:    93.8        Na:    93.5          K:  13.3     NH4:  0.0
SO4:   34.8       HCO3:   242.6        Cl:    80.7        NO3:   0.0       F:  1.2
Sum Cations:  439.8  Sum Anions:   359.4  Cations/Anions: 1.22   Tot. P:   5.0
Tot. Al:   53.0     Ext. Al:  11.0     Fe:   60.0       Mn:    0.0    SiO2:  0.70
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B2-061   Name: (NO NAME)                        State: MI  Date: 14OCT84
Sample Type: REGULAR           Latitude: 46-35'38"N   Longitude: 88-08'30"W
Elevation:  523   Surface Temp: 13.4  Stratified: MIXED     Site Depth:   2.7
Lake Area:      21 Watershed Area:    210 WA/LA:     10.2 Hydro Type: DRAINAGE
Residence Time:  0.28  Secchi Depth:  0.8   Turbidity:   1.3     Color:  125
Closed pH: 5.53        Equil. pH: 5.76             ANC:   30.0        DOC: 13.90
Closed DIC:  0.58  Equil. DIC:  0.18   Meas. Cond:  20.7   Cal. Cond:  19.1
Ca:   91.3          Mg:    54.3        Na:    22.2       K:  10.0       NH4:  0.0
SO4:   86.6       HCO3:     6.3        Cl:     6.2      NO3:    2.5         F:  1.3
Sum Cations:  180.8  Sum Anions:  102.9  Cations/Anions: 1.76   Tot. P:  18.0
Tot. Al:  142.0    Ext. Al:  49.0    Fe:  290.0     Mn:    20.0     SiO2:  3.74

ID: 2B2-062   Name: PEANUT LAKE                      State: MI  Date: 24OCT84
Sample Type: REGULAR           Latitude: 46-26'39"N   Longitude: 85-43'28"W
Elevation:  263   Surface Temp:  9.9  Stratified: MIXED     Site Depth:   6.7
Lake Area:       7 Watershed Area:    272 WA/LA:     40.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.5   Turbidity:   1.3     Color:   15
Closed pH: 6.46        Equil. pH: 7.22             ANC:   92.0        DOC:  4.20
Closed DIC:  1.73  Equil. DIC:  1.13   Meas. Cond:  18.9   Cal. Cond:  19.1
Ca:   93.8          Mg:    46.9        Na:    11.3       K:  15.2       NH4:  1.7
SO4:   63.7       HCO3:    71.3        Cl:     9.6      NO3:    0.9         F:  0.9
Sum Cations:  169.2  Sum Anions:  146.4  Cations/Anions: 1.16   Tot. P:  19.0
Tot. Al:   17.0    Ext. Al:   1.0    Fe:   20.0     Mn:     0.0     SiO2:  0.09

ID: 2B2-063   Name: BIG BEAR LAKE                    State: MI  Date: 17OCT84
Sample Type: REGULAR           Latitude: 46-37'54"N   Longitude: 88-04'55"W
Elevation:  527   Surface Temp: 11.9  Stratified: MIXED     Site Depth:   3.6
Lake Area:       5 Watershed Area:     67 WA/LA:     13.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.8   Turbidity:   1.1     Color:  110
Closed pH: 6.12        Equil. pH: 6.79             ANC:   65.0        DOC: 10.80
Closed DIC:  1.22  Equil. DIC:  0.48   Meas. Cond:  20.1   Cal. Cond:  19.1
Ca:  112.3          Mg:    49.4        Na:    17.0       K:   7.7       NH4:  0.0
SO4:   75.6       HCO3:    32.7        Cl:     7.3      NO3:    0.4         F:  1.1
Sum Cations:  187.0  Sum Anions:  117.1  Cations/Anions: 1.60   Tot. P:  15.0
Tot. Al:  149.0    Ext. Al:  45.0    Fe:  140.0     Mn:     0.0     SiO2:  0.62

ID: 2B2-064   Name: (NO NAME)                        State: MI  Date: 14OCT84
Sample Type: REGULAR           Latitude: 46-35'09"N   Longitude: 87-57'27"W
Elevation:  517   Surface Temp: 13.1  Stratified: MIXED     Site Depth:   7.3
Lake Area:      11 Watershed Area:     91 WA/LA:      8.0 Hydro Type: DRAINAGE
Residence Time:  0.95  Secchi Depth:  3.1   Turbidity:   0.6     Color:   35
Closed pH: 7.08        Equil. pH: 7.36             ANC:  131.0        DOC:  5.40
Closed DIC:  1.63  Equil. DIC:  1.44   Meas. Cond:  26.2   Cal. Cond:  26.7
Ca:  142.2          Mg:    66.6        Na:    18.3       K:  11.8       NH4:  0.0
SO4:   91.8       HCO3:   113.1        Cl:     5.6      NO3:    0.3         F:  1.1
Sum Cations:  239.0  Sum Anions:  212.1  Cations/Anions: 1.13   Tot. P:   6.0
Tot. Al:   26.0    Ext. Al:   6.0    Fe:   60.0     Mn:    10.0     SiO2:  1.66

ID: 2B2-065   Name: HASSCIB LAKE                     State: MI  Date: 17OCT84
Sample Type: REGULAR           Latitude: 46-37'56"N   Longitude: 88-01'25"W
Elevation:  527   Surface Temp: 11.9  Stratified: STRONG    Site Depth:  14.6
Lake Area:      14 Watershed Area:     57 WA/LA:      4.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.4   Turbidity:   0.8     Color:   10
Closed pH: 7.09        Equil. pH: 7.69             ANC:  128.0        DOC:  5.00
Closed DIC:  1.63  Equil. DIC:  1.72   Meas. Cond:  22.5   Cal. Cond:  23.0
Ca:  133.2          Mg:    55.1        Na:    13.9       K:   5.6       NH4:  0.0
SO4:   68.7       HCO3:   112.5        Cl:     5.9      NO3:    0.4         F:  0.5
Sum Cations:  208.0  Sum Anions:  188.2  Cations/Anions: 1.11   Tot. P:   7.0
Tot. Al:   17.0    Ext. Al:   2.0    Fe:    0.0     Mn:     0.0     SiO2:  0.43
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B2-066   Name: UPPER BARAGA LAKE                  State: MI  Date: 17OCT84
Sample Type: REGULAR             Latitude: 46-40'52"N    Longitude: 88-01'57"W
Elevation:  523   Surface Temp: 11.9  Stratified: STRONG    Site Depth:  12.2
Lake Area:     26 Watershed Area:     826 WA/LA:    31.9 Hydro Type: DRAINAGE
Residence Time:  0.45  Secchi Depth:  2.5   Turbidity:   0.5     Color:   40
Closed pH: 7.44       Equil. pH: 7.73             ANC:  339.0        DOC:  5.60
Closed DIC:  3.91   Equil. DIC:  3.74    Meas. Cond:  44.2   Cal. Cond:  47.6
Ca:  293.4          Mg:  115.2         Na:    24.8        K:   9.5      NH4:  0.0
SO4:    94.5       HCO3:  312.9        Cl:     5.9      NO3:   0.8        F:  1.3
Sum Cations:  442.9  Sum Anions:  416.1  Cations/Anions: 1.06   Tot. P:   7.0
Tot. Al:   38.0    Ext. Al:  13.0    Fe:   80.0      Mn:    0.0    SiO2:  3.28

ID: 2B2-067   Name: CROOKED LAKE                       State: MI  Date: 14OCT84
Sample Type: REGULAR             Latitude: 46-36'11"N    Longitude: 88-09'21"W
Elevation:  522   Surface Temp: 13.1  Stratified: MIXED     Site Depth:   7.6
Lake Area:    107 Watershed Area:     655 WA/LA:     6.1 Hydro Type: DRAINAGE
Residence Time:  1.23  Secchi Depth:  1.2   Turbidity:   1.8     Color:   85
Closed pH: 6.27       Equil. pH: 6.74             ANC:   61.0        DOC:  9.40
Closed DIC:  0.88   Equil. DIC:  0.46    Meas. Cond:  19.2   Cal. Cond:  18.0
Ca:   90.8          Mg:    49.4        Na:    19.1        K:  11.0      NH4:  0.0
SO4:    71.4       HCO3:   36.2        Cl:     5.4      NO3:   3.8        F:  1.2
Sum Cations:  170.7  Sum Anions:  118.0  Cations/Anions: 1.45   Tot. P:  25.0
Tot. Al:  119.0    Ext. Al:  31.0    Fe:  270.0      Mn:   30.0    SiO2:  1.34

ID: 2B2-070   Name: PRETTY LAKE                        State: MI  Date: 24OCT84
Sample Type: REG/SPC/LTM/        Latitude: 46-36'05"N    Longitude: 85-39'37"W
Elevation:  229   Surface Temp: 10.9  Stratified: WEAK      Site Depth:  16.8
Lake Area:     19 Watershed Area:      85 WA/LA:     4.6 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  6.1   Turbidity:   0.2     Color:    5
Closed pH: 6.75       Equil. pH: 6.93             ANC:   58.0        DOC:  2.50
Closed DIC:  1.02   Equil. DIC:  0.91    Meas. Cond:  16.9   Cal. Cond:  16.9
Ca:   81.8          Mg:    36.2        Na:    20.0        K:  10.1      NH4:  0.6
SO4:    62.7       HCO3:   55.6        Cl:     8.5      NO3:   0.8        F:  0.8
Sum Cations:  148.9  Sum Anions:  128.3  Cations/Anions: 1.16   Tot. P:   1.0
Tot. Al:    9.0    Ext. Al:   1.0    Fe:   20.0      Mn:    0.0    SiO2:  0.70

ID: 2B2-074   Name: ROGER LAKE                         State: WI  Date: 05NOV84
Sample Type: REGULAR             Latitude: 46-31'34"N    Longitude: 91-25'24"W
Elevation:  344   Surface Temp:  2.0  Stratified: MIXED     Site Depth:   3.0
Lake Area:     11 Watershed Area:     104 WA/LA:     9.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.0   Turbidity:   0.8     Color:   35
Closed pH: 6.35       Equil. pH: 6.86             ANC:   66.9        DOC:  6.00
Closed DIC:  1.09   Equil. DIC:  0.70    Meas. Cond:  13.2   Cal. Cond:  15.8
Ca:   58.9          Mg:    41.1        Na:    24.4        K:  20.7      NH4:  1.8
SO4:    32.5       HCO3:   53.3        Cl:    26.8      NO3:   1.0        F:  0.7
Sum Cations:  147.3  Sum Anions:  114.3  Cations/Anions: 1.29   Tot. P:   9.0
Tot. Al:   41.0    Ext. Al:  15.0    Fe:   40.0      Mn:   10.0    SiO2:  0.12

ID: 2B2-075   Name: RICHARDSON LAKE                    State: WI  Date: 05NOV84
Sample Type: REGULAR             Latitude: 46-32'22"N    Longitude: 91-27'51"W
Elevation:  344   Surface Temp:  4.5  Stratified: MIXED     Site Depth:   5.8
Lake Area:     10 Watershed Area:      39 WA/LA:     4.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.2   Turbidity:   0.5     Color:   21
Closed pH: 5.91       Equil. pH: 6.54             ANC:   25.4        DOC:  5.50
Closed DIC:  0.83   Equil. DIC:  0.32    Meas. Cond:   9.3   Cal. Cond:  10.7
Ca:   37.9          Mg:    26.3        Na:     9.6        K:  13.8      NH4:  0.0
SO4:    47.9       HCO3:   18.9        Cl:     6.8      NO3:   0.0        F:  1.1
Sum Cations:   88.6  Sum Anions:   74.6  Cations/Anions: 1.19   Tot. P:  17.0
Tot. Al:   12.0    Ext. Al:   6.0    Fe:   20.0      Mn:   10.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B2-076   Name: BEAVERTOWN LAKES (LG.MID)       State: MI  Date: 24OCT84
Sample Type: REGULAR           Latitude: 46-34'18"N   Longitude: 85-44'20"W
Elevation:  237   Surface Temp:  5.8  Stratified: MIXED     Site Depth:   0.9
Lake Area:       5 Watershed Area:      28 WA/LA:     5.7 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  0.9   Turbidity:   0.2     Color:   10
Closed pH: 4.46        Equil. pH: 4.44              ANC:  -48.6      DOC:  4.20
Closed DIC:  0.53   Equil. DIC:  0.20    Meas. Cond:  25.5   Cal. Cond:  26.1
Ca:   27.4            Mg:   23.9         Na:     9.1        K:  11.0     NH4:  0.6
SO4:   81.2        HCO3:    0.5        Cl:     6.8      NO3:   7.3        F:  0.9
Sum Cations:  112.8  Sum Anions:    96.6  Cations/Anions: 1.17   Tot. P:   5.0
Tot. Al:   80.0    Ext. Al:  47.0     Fe:   20.0      Mn:     0.0   SiO2:  0.00
```

```
ID: 2B2-077   Name: MULLENHOFF LAKE                  State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 46-32'14"N   Longitude: 91-24'08"W
Elevation:  339   Surface Temp:  2.2  Stratified: MIXED     Site Depth:   3.3
Lake Area:      27 Watershed Area:     404 WA/LA:    15.3 Hydro Type: DRAINAGE
Residence Time:  0.34  Secchi Depth:  1.5   Turbidity:   2.0     Color:   57
Closed pH: 6.78        Equil. pH: 7.36              ANC:  145.7      DOC:  5.80
Closed DIC:  1.90   Equil. DIC:  1.92    Meas. Cond:  17.2   Cal. Cond:  18.9
Ca:   99.3            Mg:   60.9         Na:    20.4        K:   8.7     NH4:  2.8
SO4:   22.7        HCO3:  112.0        Cl:     6.2      NO3:   6.3        F:  1.4
Sum Cations:  192.3  Sum Anions:   148.7  Cations/Anions: 1.29   Tot. P:  23.0
Tot. Al:   12.0    Ext. Al:   2.0     Fe:  640.0      Mn:     0.0   SiO2:  2.49
```

```
ID: 2B2-078   Name: BONNIER LAKE                     State: MI  Date: 03NOV84
Sample Type: REGULAR           Latitude: 46-50'05"N   Longitude: 88-52'47"W
Elevation:  365   Surface Temp:  7.3  Stratified: MIXED     Site Depth:  19.5
Lake Area:       5 Watershed Area:      18 WA/LA:     4.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.5   Turbidity:   0.3     Color:   10
Closed pH: 5.63        Equil. pH: 6.45              ANC:   11.0      DOC:  2.20
Closed DIC:  1.08   Equil. DIC:  0.43    Meas. Cond:  10.6   Cal. Cond:  11.0
Ca:   38.4            Mg:   20.6         Na:     8.7        K:   6.6     NH4:  1.7
SO4:   61.6        HCO3:   15.6        Cl:     5.1      NO3:   0.0        F:  0.5
Sum Cations:   77.6  Sum Anions:    82.9  Cations/Anions: 0.94   Tot. P:  11.0
Tot. Al:   11.0    Ext. Al:   2.0     Fe:   10.0      Mn:    10.0   SiO2:  0.15
```

```
ID: 2B2-079   Name: PINE LAKE                        State: MI  Date: 18OCT84
Sample Type: REGULAR           Latitude: 46-58'57"N   Longitude: 88-43'07"W
Elevation:  382   Surface Temp: 12.1  Stratified: MIXED     Site Depth:   2.2
Lake Area:       9 Watershed Area:      36 WA/LA:     4.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.2   Turbidity:   0.8     Color:   25
Closed pH: 6.07        Equil. pH: 6.45              ANC:   27.0      DOC:  4.40
Closed DIC:  0.68   Equil. DIC:  0.33    Meas. Cond:  12.3   Cal. Cond:  12.4
Ca:   48.4            Mg:   28.0         Na:     9.6        K:   8.2     NH4:  0.0
SO4:   56.4        HCO3:   18.2        Cl:    15.8      NO3:   0.7        F:  0.7
Sum Cations:   95.0  Sum Anions:    91.8  Cations/Anions: 1.03   Tot. P:  15.0
Tot. Al:   38.0    Ext. Al:   8.0     Fe:   10.0      Mn:     0.0   SiO2:  0.08
```

```
ID: 2B2-082   Name: (NO NAME)                        State: MI  Date: 03NOV84
Sample Type: REGULAR           Latitude: 46-51'41"N   Longitude: 88-50'48"W
Elevation:  368   Surface Temp:  4.7  Stratified: MIXED     Site Depth:  17.3
Lake Area:       4 Watershed Area:      98 WA/LA:    22.3 Hydro Type: DRAINAGE
Residence Time:  0.89  Secchi Depth:  4.0   Turbidity:   0.5     Color:   25
Closed pH: 5.60        Equil. pH: 6.43              ANC:   23.5      DOC:  4.00
Closed DIC:  1.92   Equil. DIC:  0.36    Meas. Cond:  14.0   Cal. Cond:  13.6
Ca:   51.4            Mg:   28.0         Na:    13.0        K:  11.8     NH4:  2.8
SO4:   65.1        HCO3:   18.4        Cl:     6.1      NO3:   0.4        F:  0.6
Sum Cations:  109.2  Sum Anions:    90.5  Cations/Anions: 1.21   Tot. P:   9.0
Tot. Al:   69.0    Ext. Al:  25.5     Fe:   80.0      Mn:    20.0   SiO2:  0.29
```

(continued)

TABLE 3-1 (continued)

```
ID: 282-083   Name: FAWN LAKE                        State: MI  Date: 20OCT84
Sample Type: REGULAR          Latitude: 46-30'02"N    Longitude: 86-17'49"W
Elevation:  274   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   8.2
Lake Area:      7 Watershed Area:     36 WA/LA:     4.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.8   Turbidity:   0.8      Color:    18
Closed pH: 7.69       Equil. pH: 8.33              ANC:  960.3         DOC: 10.80
Closed DIC: 11.57  Equil. DIC: 10.31    Meas. Cond:  98.7   Cal. Cond: 105.8
Ca:  821.1          Mg:  201.9        Na:    30.7        K:  14.1       NH4:  2.2
SO4:   66.6       HCO3:  834.2        Cl:     7.6      NO3:   0.1         F:  1.5
Sum Cations: 1070.0  Sum Anions:  916.6  Cations/Anions: 1.17   Tot. P:  24.5
Tot. Al:     5.5   Ext. Al:   5.0     Fe:    65.0      Mn:    0.0    SiO2:  3.85
```

```
ID: 282-084   Name: CORNER LAKE                      State: MI  Date: 17OCT84
Sample Type: REGULAR          Latitude: 46-40'50"N    Longitude: 88-04'30"W
Elevation:  540   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   2.7
Lake Area:      7 Watershed Area:    117 WA/LA:    18.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.9   Turbidity:   1.0      Color:    90
Closed pH: 6.61       Equil. pH: 7.25              ANC:  127.0         DOC: 11.90
Closed DIC:  1.60  Equil. DIC:  1.13    Meas. Cond:  27.3   Cal. Cond:  26.8
Ca:  167.7          Mg:   74.9        Na:    19.6        K:   8.7       NH4:  0.0
SO4:   84.3       HCO3:   83.7        Cl:     7.1      NO3:   1.3         F:  1.3
Sum Cations:  271.0  Sum Anions:  177.7  Cations/Anions: 1.53   Tot. P:   8.0
Tot. Al:   178.0   Ext. Al:  85.0     Fe:    90.0      Mn:    0.0    SiO2:  1.75
```

```
ID: 282-087   Name: (NO NAME)                        State: MI  Date: 23OCT84
Sample Type: REGULAR          Latitude: 46-31'53"N    Longitude: 85-36'07"W
Elevation:  237   Surface Temp:  6.3  Stratified: MIXED      Site Depth:   0.9
Lake Area:      5 Watershed Area:    153 WA/LA:    30.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.6   Turbidity:   1.0      Color:   100
Closed pH: 4.62       Equil. pH: 4.62              ANC:  -24.6         DOC: 17.00
Closed DIC:  0.84  Equil. DIC:  0.24    Meas. Cond:  21.6   Cal. Cond:  21.0
Ca:   45.9          Mg:   33.7        Na:    15.2        K:   8.0       NH4:  4.4
SO4:   46.4       HCO3:    0.9        Cl:    15.0      NO3:   0.2         F:  0.9
Sum Cations:  135.5  Sum Anions:   63.4  Cations/Anions: 2.14   Tot. P:  23.0
Tot. Al:   155.0   Ext. Al:  45.0     Fe:   410.0      Mn:   30.0    SiO2:  0.10
```

```
ID: 282-088   Name: STONINGTON LAKE                  State: MI  Date: 18OCT84
Sample Type: REGULAR          Latitude: 46-57'47"N    Longitude: 88-47'10"W
Elevation:  387   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   6.4
Lake Area:      5 Watershed Area:    282 WA/LA:    55.3 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  1.5   Turbidity:   0.6      Color:    55
Closed pH: 7.21       Equil. pH: 8.16              ANC:  495.0         DOC:  6.90
Closed DIC:  6.19  Equil. DIC:  5.40    Meas. Cond:  64.7   Cal. Cond:  67.3
Ca:  387.2          Mg:  147.2        Na:    90.5        K:  12.8       NH4:  0.0
SO4:   63.5       HCO3:  444.4        Cl:    78.4      NO3:   0.1         F:  1.6
Sum Cations:  637.8  Sum Anions:  588.9  Cations/Anions: 1.08   Tot. P:  15.0
Tot. Al:    43.0   Ext. Al:   8.0     Fe:   110.0      Mn:    0.0    SiO2:  2.87
```

```
ID: 282-090   Name: ELEVENMILE LAKE                  State: MI  Date: 18OCT84
Sample Type: REGULAR          Latitude: 47-00'57"N    Longitude: 88-42'30"W
Elevation:  422   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   1.7
Lake Area:      6 Watershed Area:     44 WA/LA:     8.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.7   Turbidity:   0.3      Color:    25
Closed pH: 5.13       Equil. pH: 5.11              ANC:   -7.0         DOC:  3.50
Closed DIC:  0.43  Equil. DIC:  0.11    Meas. Cond:  12.7   Cal. Cond:  14.2
Ca:   31.9          Mg:   25.5        Na:     7.4        K:   6.4       NH4:  0.0
SO4:   67.7       HCO3:    1.5        Cl:    21.7      NO3:   0.0         F:  0.6
Sum Cations:   79.5  Sum Anions:   91.5  Cations/Anions: 0.87   Tot. P:   2.0
Tot. Al:    38.0   Ext. Al:  13.0     Fe:    10.0      Mn:   20.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 282-091   Name: DEER LAKE                          State: MI  Date: 20OCT84
Sample Type: REGULAR            Latitude: 46'30'25"N    Longitude: 86-14'35"W
Elevation:  279   Surface Temp:  9.4  Stratified: MIXED      Site Depth:   0.9
Lake Area:      7 Watershed Area:      39 WA/LA:      5.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.5   Turbidity:   0.4      Color:   15
Closed pH: 5.24      Equil. pH: 5.30              ANC:    1.7         DOC:  3.60
Closed DIC:  0.46   Equil. DIC:  0.12    Meas. Cond:  14.4   Cal. Cond:  15.6
Ca:   53.9         Mg:    22.2      Na:    11.3        K:    9.2       NH4:   7.7
SO4:    79.3     HCO3:     4.7      Cl:     5.4      NO3:    8.5         F:   0.6
Sum Cations:   109.3  Sum Anions:    98.6  Cations/Anions: 1.11   Tot. P:   6.0
Tot. Al:    29.0    Ext. Al:  18.0     Fe:    10.0     Mn:    30.0    SiO2:  0.22

ID: 282-095   Name: EVERGREEN LAKE                     State: MI  Date: 17OCT84
Sample Type: REGULAR            Latitude: 46-42'39"N    Longitude: 88-02'09"W
Elevation:  540   Surface Temp: 11.9  Stratified: WEAK       Site Depth:   9.1
Lake Area:      6 Watershed Area:      54 WA/LA:      8.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.9   Turbidity:   1.0      Color:   35
Closed pH: 6.82      Equil. pH: 7.11              ANC:   90.0         DOC:  7.20
Closed DIC:  1.04   Equil. DIC:  0.96    Meas. Cond:  20.6   Cal. Cond:  20.7
Ca:  120.8         Mg:    57.6      Na:    11.3        K:    5.1       NH4:   0.0
SO4:    78.1     HCO3:    58.2      Cl:     7.1      NO3:    0.1         F:   0.8
Sum Cations:   195.0  Sum Anions:   144.3  Cations/Anions: 1.35   Tot. P:   1.0
Tot. Al:    79.0    Ext. Al:  21.0     Fe:   190.0     Mn:     0.0    SiO2:  1.46

ID: 282-097   Name: LAKE RAYMOND                       State: MI  Date: 14OCT84
Sample Type: REGULAR            Latitude: 46-39'38"N    Longitude: 87-58'25"W
Elevation:  551   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   5.8
Lake Area:      9 Watershed Area:      57 WA/LA:      6.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.3   Turbidity:   0.7      Color:   30
Closed pH: 7.91      Equil. pH: 8.04              ANC:  450.0         DOC:  7.20
Closed DIC:  4.87   Equil. DIC:  4.91    Meas. Cond:  53.0   Cal. Cond:  55.0
Ca:  363.8         Mg:   143.1      Na:    19.1        K:    5.9       NH4:   0.0
SO4:    71.2     HCO3:   405.4      Cl:     5.9      NO3:    0.4         F:   1.3
Sum Cations:   531.9  Sum Anions:   486.0  Cations/Anions: 1.09   Tot. P:  10.0
Tot. Al:    25.0    Ext. Al:   9.0     Fe:    20.0     Mn:     0.0    SiO2:  0.35

ID: 282-098   Name: DELENE LAKE                        State: MI  Date: 17OCT84
Sample Type: REGULAR            Latitude: 46-32'29"N    Longitude: 88-24'19"W
Elevation:  507   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   1.5
Lake Area:     26 Watershed Area:     202 WA/LA:      7.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.4   Turbidity:   2.4      Color:   45
Closed pH: 6.90      Equil. pH: 7.24              ANC:  129.0         DOC: 10.30
Closed DIC:  1.50   Equil. DIC:  1.29    Meas. Cond:  19.6   Cal. Cond:  18.4
Ca:  125.7         Mg:    49.4      Na:    14.4        K:    8.7       NH4:   0.0
SO4:    28.5     HCO3:    92.3      Cl:     5.4      NO3:    0.3         F:   1.2
Sum Cations:   198.3  Sum Anions:   127.7  Cations/Anions: 1.55   Tot. P:  11.0
Tot. Al:    25.0    Ext. Al:   2.0     Fe:   190.0     Mn:    30.0    SiO2:  0.80

ID: 282-099   Name: HAPPLES LAKE                       State: WI  Date: 05NOV84
Sample Type: REGULAR            Latitude: 46-28'49"N    Longitude: 91-22'08"W
Elevation:  342   Surface Temp:  6.8  Stratified: MIXED      Site Depth:  11.0
Lake Area:      9 Watershed Area:      57 WA/LA:      6.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.9   Turbidity:   0.6      Color:   10
Closed pH: 7.51      Equil. pH: 8.02              ANC:  524.3         DOC:  3.00
Closed DIC:  6.38   Equil. DIC:  6.56    Meas. Cond:  55.0   Cal. Cond:  68.9
Ca:  424.6         Mg:   171.9      Na:    39.1        K:    9.5       NH4:  18.0
SO4:    63.3     HCO3:   555.1      Cl:     7.1      NO3:    0.0         F:   1.7
Sum Cations:   663.2  Sum Anions:   629.1  Cations/Anions: 1.05   Tot. P:   8.0
Tot. Al:     3.0    Ext. Al:   2.0     Fe:     0.0     Mn:    10.0    SiO2:  1.71
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B2-100   Name: HERBERT LAKE                     State: MI  Date: 17OCT84
Sample Type: REGULAR            Latitude: 46-39'00"N    Longitude: 88-06'25"W
Elevation:  521   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   3.4
Lake Area:      13 Watershed Area:      96 WA/LA:      7.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.8  Turbidity:   0.9      Color:   25
Closed pH: 4.83       Equil. pH: 4.80               ANC:   15.0        DOC:  4.65
Closed DIC:  0.34   Equil. DIC:  0.16    Meas. Cond:  20.5   Cal. Cond:  21.0
Ca:   49.6          Mg:   34.5       Na:   14.1          K:   5.5       NH4:  0.0
SO4:  114.0       HCO3:     0.8       Cl:     5.6       NO3:   0.6          F:  1.2
Sum Cations:  119.3  Sum Anions:  122.3  Cations/Anions: 0.98   Tot. P:   0.5
Tot. Al:  143.5    Ext. Al:  90.0    Fe:    45.0      Mn:    30.0     SiO2:  0.13

ID: 2B3-001   Name: LAKE THERESA                     State: MI  Date: 20OCT84
Sample Type: REGULAR            Latitude: 48-02'05"N    Longitude: 88-37'50"W
Elevation:  189   Surface Temp:  7.2  Stratified: MIXED      Site Depth:   0.9
Lake Area:       7 Watershed Area:      67 WA/LA:     10.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.7  Turbidity:   1.7      Color:   63
Closed pH: 7.13       Equil. pH: 7.52               ANC:  224.4        DOC: 18.10
Closed DIC:  2.07   Equil. DIC:  2.09    Meas. Cond:  30.4   Cal. Cond:  32.0
Ca:  231.5          Mg:   93.8       Na:   20.6          K:   3.3       NH4:  1.1
SO4:   49.3       HCO3:   168.2       Cl:     5.6       NO3:   0.0          F:  0.7
Sum Cations:  350.4  Sum Anions:  224.1  Cations/Anions: 1.56   Tot. P:  22.0
Tot. Al:  113.0    Ext. Al:  24.0    Fe:     0.0      Mn:     0.0     SiO2:  0.43

ID: 2B3-003   Name: DEER LAKE                        State: MI  Date: 18OCT84
Sample Type: REGULAR            Latitude: 47-21'15"N    Longitude: 88-02'15"W
Elevation:  189   Surface Temp: 11.6  Stratified: MIXED      Site Depth:   4.3
Lake Area:     126 Watershed Area:    1829 WA/LA:     14.5 Hydro Type: DRAINAGE
Residence Time:  0.33  Secchi Depth:  1.2  Turbidity:   1.6      Color:   55
Closed pH: 7.12       Equil. pH: 7.78               ANC:  218.0        DOC: 11.00
Closed DIC:  2.49   Equil. DIC:  2.11    Meas. Cond:  33.4   Cal. Cond:  32.0
Ca:  188.1          Mg:  106.9       Na:   35.7          K:  12.3       NH4:  0.0
SO4:   58.9       HCO3:   163.5       Cl:     5.1       NO3:   0.0          F:  1.4
Sum Cations:  343.1  Sum Anions:  229.2  Cations/Anions: 1.50   Tot. P:  11.0
Tot. Al:   98.0    Ext. Al:  12.0    Fe:   140.0      Mn:     0.0     SiO2:  1.36

ID: 2B3-004   Name: CLIFF LAKE                       State: MI  Date: 17OCT84
Sample Type: REGULAR            Latitude: 46-50'54"N    Longitude: 87-58'24"W
Elevation:  283   Surface Temp: 12.5  Stratified: WEAK       Site Depth:  10.4
Lake Area:      20 Watershed Area:     109 WA/LA:      5.4 Hydro Type: DRAINAGE
Residence Time:  1.85  Secchi Depth:  2.9  Turbidity:   0.7      Color:   25
Closed pH: 7.70       Equil. pH: 8.21               ANC:  714.0        DOC:  6.00
Closed DIC:  8.04   Equil. DIC:  8.04    Meas. Cond:  80.3   Cal. Cond:  85.5
Ca:  573.8          Mg:  191.7       Na:   34.8          K:  14.3       NH4:  0.0
SO4:  107.4       HCO3:   634.3       Cl:    17.8       NO3:   0.0          F:  1.5
Sum Cations:  814.7  Sum Anions:  763.9  Cations/Anions: 1.07   Tot. P:   1.0
Tot. Al:  388.0    Ext. Al:  17.0    Fe:    20.0      Mn:     0.0     SiO2:  5.00

ID: 2B3-005   Name: LOST LAKE                        State: MI  Date: 17OCT84
Sample Type: REGULAR            Latitude: 46-44'03"N    Longitude: 88-21'42"W
Elevation:  357   Surface Temp: 12.6  Stratified: MIXED      Site Depth:   6.7
Lake Area:       5 Watershed Area:      18 WA/LA:      3.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.4  Turbidity:   0.5      Color:   30
Closed pH: 7.86       Equil. pH: 8.40               ANC: 1044.2        DOC:  7.70
Closed DIC: 11.60   Equil. DIC: 12.57    Meas. Cond: 108.1   Cal. Cond: 115.0
Ca:  829.8          Mg:  253.4       Na:   30.4          K:  13.3       NH4:  0.0
SO4:   79.7       HCO3:   950.1       Cl:     7.1       NO3:   0.4          F:  2.0
Sum Cations: 1127.0  Sum Anions: 1044.9  Cations/Anions: 1.08   Tot. P:   1.0
Tot. Al:   15.0    Ext. Al:   4.0    Fe:    40.0      Mn:     0.0     SiO2:  4.15
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B3-007   Name: ISLAND LAKE                   State: MI  Date: 13OCT84
Sample Type: REGULAR           Latitude: 46-40'18"N   Longitude: 87-47'10"W
Elevation:  527   Surface Temp: 12.5  Stratified: STRONG    Site Depth:  14.9
Lake Area:      12 Watershed Area:     52 WA/LA:     4.5 Hydro Type: DRAINAGE
Residence Time:  3.06  Secchi Depth:  4.6   Turbidity:  0.2     Color:   20
Closed pH: 6.56       Equil. pH: 7.01            ANC:   56.0        DOC:  4.40
Closed DIC:  0.72   Equil. DIC:  0.54    Meas. Cond:  20.5   Cal. Cond:  21.2
Ca:  120.8          Mg:   38.7       Na:   14.4        K:   4.6      NH4:  0.0
SO4:  100.6      HCO3:   41.0       Cl:   11.3       NO3:   0.4        F:  1.1
Sum Cations:  178.6  Sum Anions:  154.3  Cations/Anions: 1.16   Tot. P:   4.0
Tot. Al:   70.0    Ext. Al:  26.0    Fe:    0.0     Mn:    0.0    SiO2:  1.09

ID: 2B3-008   Name: SECTION FOUR LAKE             State: MI  Date: 23OCT84
Sample Type: REGULAR           Latitude: 46-40'26"N   Longitude: 85-18'15"W
Elevation:  220   Surface Temp:  9.4  Stratified: MIXED     Site Depth:   6.1
Lake Area:       4 Watershed Area:     10 WA/LA:     2.3 Hydro Type: DRAINAGE
Residence Time:  1.64  Secchi Depth:  2.0   Turbidity:  1.0     Color:   30
Closed pH: 6.78       Equil. pH: 7.22            ANC:  145.0        DOC:  8.90
Closed DIC:  1.85   Equil. DIC:  1.42    Meas. Cond:  29.2   Cal. Cond:  30.0
Ca:  149.7          Mg:   93.0       Na:   18.7        K:  16.5      NH4:  5.5
SO4:   97.6      HCO3:  106.3       Cl:   10.7       NO3:   1.2        F:  0.9
Sum Cations:  283.6  Sum Anions:  216.8  Cations/Anions: 1.31   Tot. P:   1.0
Tot. Al:   37.0    Ext. Al:   2.0    Fe:    0.0     Mn:    0.0    SiO2:  0.74

ID: 2B3-009   Name: GRAND SABLE LAKE              State: MI  Date: 20OCT84
Sample Type: REGULAR           Latitude: 46-38'15"N   Longitude: 86-02'30"W
Elevation:  226   Surface Temp: 11.8  Stratified: MIXED     Site Depth:  18.6
Lake Area:     262 Watershed Area:   2707 WA/LA:    10.3 Hydro Type: DRAINAGE
Residence Time:  1.82  Secchi Depth:  3.3   Turbidity:  0.6     Color:   30
Closed pH: 7.86       Equil. pH: 8.32            ANC:  982.9        DOC: 11.90
Closed DIC: 11.62   Equil. DIC: 10.64    Meas. Cond: 102.7   Cal. Cond: 118.1
Ca:  711.3          Mg:  399.8       Na:   37.4        K:  20.7      NH4:  0.5
SO4:  104.7      HCO3:  925.9       Cl:    9.0       NO3:   2.5        F:  2.2
Sum Cations: 1169.7  Sum Anions: 1052.6  Cations/Anions: 1.11   Tot. P:  14.0
Tot. Al:    9.0    Ext. Al:   5.5    Fe:   40.0     Mn:    0.0    SiO2:  6.49

ID: 2B3-012   Name: ROUND LAKE                    State: MI  Date: 14OCT84
Sample Type: REGULAR           Latitude: 46-33'24"N   Longitude: 87-56'52"W
Elevation:  486   Surface Temp: 13.5  Stratified: MIXED     Site Depth:   4.6
Lake Area:      17 Watershed Area:    728 WA/LA:    43.6 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  1.2   Turbidity:  0.8     Color:   85
Closed pH: 6.93       Equil. pH: 7.38            ANC:  161.0        DOC: 10.70
Closed DIC:  1.73   Equil. DIC:  1.44    Meas. Cond:  31.3   Cal. Cond:  30.8
Ca:  182.1          Mg:   96.2       Na:   24.4        K:   8.7      NH4:  0.0
SO4:   91.6      HCO3:  111.0       Cl:    7.3       NO3:   0.7        F:  1.5
Sum Cations:  311.6  Sum Anions:  212.3  Cations/Anions: 1.47   Tot. P:  17.0
Tot. Al:  111.0    Ext. Al:  25.0    Fe:  180.0     Mn:    0.0    SiO2:  2.13

ID: 2B3-013   Name: FOX LAKE                      State: MI  Date: 20OCT84
Sample Type: REGULAR           Latitude: 46-35'32"N   Longitude: 86-02'04"W
Elevation:  282   Surface Temp:  9.7  Stratified: MIXED     Site Depth:   7.3
Lake Area:       5 Watershed Area:    132 WA/LA:    28.7 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  1.5   Turbidity:  1.0     Color:   75
Closed pH: 4.94       Equil. pH: 5.03            ANC:   -0.4        DOC:  2.70
Closed DIC:  1.03   Equil. DIC:  0.18    Meas. Cond:  13.5   Cal. Cond:  13.5
Ca:   43.4          Mg:   22.2       Na:    7.4        K:  13.0      NH4:  1.1
SO4:   52.9      HCO3:    1.7       Cl:    4.8       NO3:   0.0        F:  0.7
Sum Cations:   97.3  Sum Anions:   60.0  Cations/Anions: 1.62   Tot. P:  20.0
Tot. Al:  116.0    Ext. Al:  50.0    Fe:  210.0     Mn:   50.0    SiO2:  0.63
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B3-014   Name: LAURIE LAKES (SE)                State: MI  Date: 23OCT84
Sample Type: REGULAR            Latitude: 46-35'49"N    Longitude: 85-04'30"W
Elevation:  203   Surface Temp:  7.7  Stratified: MIXED     Site Depth:   1.2
Lake Area:      12 Watershed Area:      44 WA/LA:      3.6 Hydro Type: SEEPAGE
Residence Time:   *   Secchi Depth:  1.5   Turbidity:   0.9     Color:    15
Closed pH: 4.53        Equil. pH: 4.53              ANC:  -34.2        DOC:  2.60
Closed DIC:  0.40   Equil. DIC:  0.18    Meas. Cond:  21.5   Cal. Cond:  22.2
Ca:   20.0          Mg:   14.8       Na:    13.0        K:   7.1      NH4:  5.5
SO4:   74.3       HCO3:    0.4       Cl:    16.4      NO3:   4.0        F:  0.7
Sum Cations:   92.1  Sum Anions:   95.9  Cations/Anions: 0.96   Tot. P:  12.0
Tot. Al:   67.0    Ext. Al:  40.0    Fe:    20.0     Mn:    30.0    SiO2:  0.00

ID: 2B3-016   Name: BASS LAKE                        State: MI  Date: 14OCT84
Sample Type: REGULAR            Latitude: 46-31'44"N    Longitude: 88-08'33"W
Elevation:  492   Surface Temp: 12.4  Stratified: WEAK      Site Depth:   7.9
Lake Area:       7 Watershed Area:     324 WA/LA:     44.4 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  1.8   Turbidity:   0.8     Color:    40
Closed pH: 6.82        Equil. pH: 7.79              ANC:  298.0        DOC:  4.50
Closed DIC:  4.60   Equil. DIC:  3.41    Meas. Cond:  39.5   Cal. Cond:  41.2
Ca:  164.2          Mg:  162.1       Na:    40.9        K:  21.5      NH4:  0.0
SO4:   68.5       HCO3:  286.7       Cl:     8.5      NO3:   0.7        F:  3.3
Sum Cations:  388.7  Sum Anions:  367.8  Cations/Anions: 1.06   Tot. P:  26.0
Tot. Al:   12.0    Ext. Al:   3.0    Fe:    60.0     Mn:    40.0    SiO2:  5.28

ID: 2B3-018   Name: EAST LAKE                        State: MI  Date: 23OCT84
Sample Type: REGULAR            Latitude: 46-31'53"N    Longitude: 85-59'20"W
Elevation:  276   Surface Temp:  5.7  Stratified: MIXED     Site Depth:   0.9
Lake Area:       5 Watershed Area:      70 WA/LA:     13.7 Hydro Type: DRAINAGE
Residence Time:  0.07  Secchi Depth:  0.9   Turbidity:   0.8     Color:    45
Closed pH: 7.65        Equil. pH: 8.07              ANC:  571.0        DOC: 11.50
Closed DIC:  6.04   Equil. DIC:  5.91    Meas. Cond:  64.5   Cal. Cond:  67.5
Ca:  373.3          Mg:  295.3       Na:    25.2        K:  11.4      NH4:  3.3
SO4:   66.2       HCO3:  476.0       Cl:     8.2      NO3:   0.0        F:  1.5
Sum Cations:  708.5  Sum Anions:  553.7  Cations/Anions: 1.28   Tot. P:  17.0
Tot. Al:   18.0    Ext. Al:   6.0    Fe:    50.0     Mn:     0.0    SiO2:  4.09

ID: 2B3-020   Name: BUTO LAKE                        State: MI  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-26'44"N    Longitude: 87-59'45"W
Elevation:  479   Surface Temp: 12.9  Stratified: MIXED     Site Depth:   5.5
Lake Area:      10 Watershed Area:      60 WA/LA:      6.2 Hydro Type: DRAINAGE
Residence Time:  0.88  Secchi Depth:  1.0   Turbidity:   2.2     Color:   110
Closed pH: 6.10        Equil. pH: 7.01              ANC:   83.0        DOC:  7.80
Closed DIC:  2.08   Equil. DIC:  0.69    Meas. Cond:  22.4   Cal. Cond:  21.8
Ca:   89.8          Mg:   74.0       Na:    25.2        K:  10.2      NH4:  1.7
SO4:   83.1       HCO3:   59.2       Cl:     9.9      NO3:   1.4        F:  2.1
Sum Cations:  201.5  Sum Anions:  155.7  Cations/Anions: 1.29   Tot. P:  13.0
Tot. Al:   65.0    Ext. Al:  15.0    Fe:   510.0     Mn:    30.0    SiO2:  2.32

ID: 2B3-022   Name: LONG LAKE                        State: MI  Date: 23OCT84
Sample Type: REGULAR            Latitude: 46-27'28"N    Longitude: 85-49'02"W
Elevation:  258   Surface Temp:  4.5  Stratified: MIXED     Site Depth:   0.9
Lake Area:      22 Watershed Area:     725 WA/LA:     32.7 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  0.9   Turbidity:   1.1     Color:    10
Closed pH: 7.82        Equil. pH: 8.62              ANC: 1730.0        DOC:  1.30
Closed DIC: 19.18   Equil. DIC: 19.09    Meas. Cond: 170.2   Cal. Cond: 186.5
Ca: 1195.6          Mg:  529.8       Na:    47.0        K:  20.6      NH4:  5.5
SO4:  110.3       HCO3: 1600.2       Cl:    17.8      NO3:   9.5        F:  2.1
Sum Cations: 1798.5  Sum Anions: 1751.4  Cations/Anions: 1.03   Tot. P:  16.0
Tot. Al:   17.0    Ext. Al:   0.0    Fe:    80.0     Mn:    30.0    SiO2:  8.90
```

(continued)

TABLE 3-1 (continued)

```
ID: 283-023   Name: BONE LAKE                          State: MI  Date: 14OCT84
Sample Type: REGULAR            Latitude: 46-22'30"N   Longitude: 88-18'22"W
Elevation:  491   Surface Temp: 13.5  Stratified: MIXED     Site Depth:   2.1
Lake Area:      63 Watershed Area:   5467 WA/LA:    86.5 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  1.6   Turbidity:   1.1     Color:   55
Closed pH: 7.65       Equil. pH: 8.44             ANC: 1136.0          DOC:  9.30
Closed DIC: 12.37   Equil. DIC: 12.60    Meas. Cond: 114.0   Cal. Cond: 124.7
Ca:  694.6          Mg:  422.0        Na:    58.3        K:  25.1      NH4:   0.0
SO4:  101.4       HCO3: 1051.1       Cl:     8.7       NO3:   1.7        F:   2.4
Sum Cations: 1200.0  Sum Anions: 1171.5  Cations/Anions: 1.02   Tot. P:  19.0
Tot. Al:   31.0    Ext. Al:   6.0    Fe:   80.0      Mn:     0.0    SiO2:  4.36

ID: 283-027   Name: CASEY LAKE                         State: MI  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-17'20"N   Longitude: 87-55'00"W
Elevation:  448   Surface Temp: 13.4  Stratified: MIXED     Site Depth:   4.9
Lake Area:      22 Watershed Area:     52 WA/LA:     2.4 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  3.3   Turbidity:   0.7     Color:   15
Closed pH: 8.25       Equil. pH: 8.69             ANC: 1713.0          DOC:  4.00
Closed DIC: 18.61   Equil. DIC: 18.16    Meas. Cond: 157.2   Cal. Cond: 170.3
Ca:  859.8          Mg:  765.8        Na:    32.6        K:  21.2      NH4:   0.0
SO4:   74.5       HCO3: 1500.1       Cl:    15.2       NO3:   1.1        F:   2.2
Sum Cations: 1679.5  Sum Anions: 1611.6  Cations/Anions: 1.04   Tot. P:   5.0
Tot. Al:   29.0    Ext. Al:   1.0    Fe:   30.0      Mn:     0.0    SiO2:  2.53

ID: 283-028   Name: CATARACT BASIN                     State: MI  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-18'50"N   Longitude: 87-31'00"W
Elevation:  357   Surface Temp: 12.8  Stratified: MIXED     Site Depth:   3.4
Lake Area:      32 Watershed Area:  54501 WA/LA:  1687.3 Hydro Type: RESERVOIR
Residence Time:  0.00  Secchi Depth:  1.2   Turbidity:   4.3     Color:   83
Closed pH: 7.41       Equil. pH: 8.37             ANC:  866.5          DOC:  7.15
Closed DIC: 10.55   Equil. DIC:  9.38    Meas. Cond: 101.7   Cal. Cond: 107.5
Ca:  525.9          Mg:  315.1        Na:   171.4        K:  18.7      NH4:   0.0
SO4:  104.8       HCO3:  777.4       Cl:    75.7       NO3:   5.5        F:   3.8
Sum Cations: 1031.1  Sum Anions:  969.8  Cations/Anions: 1.06   Tot. P:  11.0
Tot. Al:   64.5    Ext. Al:   4.0    Fe:  850.0      Mn:    90.0    SiO2:  8.48

ID: 283-030   Name: ISLAND LAKE                        State: MI  Date: 25OCT84
Sample Type: REGULAR            Latitude: 46-16'05"N   Longitude: 86-38'51"W
Elevation:  252   Surface Temp:  9.1  Stratified: MIXED     Site Depth:   3.5
Lake Area:      15 Watershed Area:     47 WA/LA:     3.2 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  3.2   Turbidity:   0.6     Color:   15
Closed pH: 5.34       Equil. pH: 5.62             ANC:    8.4          DOC:  4.49
Closed DIC:  0.76   Equil. DIC:  0.00    Meas. Cond:  10.2   Cal. Cond:  10.5
Ca:   43.4          Mg:   18.1        Na:     6.1        K:   9.7      NH4:   1.7
SO4:   52.7       HCO3:    2.9       Cl:     6.8       NO3:   0.5        F:   0.7
Sum Cations:   81.5  Sum Anions:   63.6  Cations/Anions: 1.28   Tot. P:  16.0
Tot. Al:   27.0    Ext. Al:  11.0    Fe:   40.0      Mn:    20.0    SiO2:  0.19

ID: 283-031   Name: TWIN LAKES                         State: MI  Date: 22OCT84
Sample Type: REGULAR            Latitude: 46-18'29"N   Longitude: 85-32'00"W
Elevation:  221   Surface Temp: 10.4  Stratified: STRONG    Site Depth:  20.1
Lake Area:      38 Watershed Area:    456 WA/LA:    12.0 Hydro Type: DRAINAGE
Residence Time:  1.74  Secchi Depth:  2.9   Turbidity:   0.7     Color:   40
Closed pH: 8.03       Equil. pH: 8.85             ANC: 2726.0          DOC:  6.80
Closed DIC: 29.76   Equil. DIC: 29.81    Meas. Cond: 279.1   Cal. Cond: 299.5
Ca: 1826.3          Mg:  983.8        Na:   120.5        K:  29.6      NH4:   5.5
SO4:  160.5       HCO3: 2482.1       Cl:    63.2       NO3:   0.4        F:   3.3
Sum Cations: 2965.8  Sum Anions: 2735.5  Cations/Anions: 1.08   Tot. P:  12.0
Tot. Al:   24.0    Ext. Al:   2.0    Fe:   20.0      Mn:     0.0    SiO2:  9.62
```

(continued)

TABLE 3-1 (continued)

```
ID: 283-032   Name: ANDERSON LAKE                     State: MI  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-13'22"N   Longitude: 87-29'30"W
Elevation:  336   Surface Temp: 13.6  Stratified: MIXED     Site Depth:   6.1
Lake Area:      20 Watershed Area:     67 WA/LA:      3.3 Hydro Type: DRAINAGE
Residence Time:  1.87  Secchi Depth:  5.6   Turbidity:   1.3     Color:   20
Closed pH: 7.82       Equil. pH: 8.35               ANC:  852.0        DOC:  4.30
Closed DIC: 10.01   Equil. DIC:  9.43    Meas. Cond:  86.6   Cal. Cond:  90.5
Ca:  513.5           Mg:  325.8       Na:   30.9        K:  15.9       NH4:  0.0
SO4:    56.6      HCO3:  765.8      Cl:   12.4      NO3:   0.6          F:  1.4
Sum Cations:  886.0  Sum Anions:  840.6  Cations/Anions: 1.05   Tot. P:   9.0
Tot. Al:   14.0    Ext. Al:   2.0    Fe:  130.0     Mn:     0.0    SiO2:  8.42

ID: 283-034   Name: KLONDIKE LAKE                     State: MI  Date: 25OCT84
Sample Type: REGULAR            Latitude: 46-13'18"N   Longitude: 86-30'10"W
Elevation:  241   Surface Temp:  9.6  Stratified: MIXED     Site Depth:  13.7
Lake Area:      17 Watershed Area:     54 WA/LA:      3.2 Hydro Type: DRAINAGE
Residence Time:  3.43  Secchi Depth:  3.0   Turbidity:   0.8     Color:   25
Closed pH: 7.62       Equil. pH: 8.46               ANC: 1317.2        DOC:  6.17
Closed DIC: 15.70   Equil. DIC: 14.16    Meas. Cond: 133.4   Cal. Cond: 139.5
Ca:  984.5           Mg:  389.1       Na:   29.6        K:  22.0       NH4:  1.7
SO4:    47.9      HCO3: 1166.6      Cl:   10.2      NO3:   0.0          F:  1.7
Sum Cations: 1426.9  Sum Anions: 1232.8  Cations/Anions: 1.16   Tot. P:   9.0
Tot. Al:    3.0    Ext. Al:   0.0    Fe:   20.0     Mn:     0.0    SiO2:  6.14

ID: 283-035   Name: NELSON LAKE                       State: MI  Date: 22OCT84
Sample Type: REGULAR            Latitude: 46-13'42"N   Longitude: 85-22'50"W
Elevation:  251   Surface Temp:  8.4  Stratified: MIXED     Site Depth:   1.2
Lake Area:      12 Watershed Area:    155 WA/LA:     12.8 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  1.2   Turbidity:   0.5     Color:   25
Closed pH: 8.58       Equil. pH: 8.80               ANC: 2392.0        DOC:  6.80
Closed DIC: 25.32   Equil. DIC: 25.42    Meas. Cond: 219.2   Cal. Cond: 207.5
Ca: 1368.3           Mg:  429.4       Na:   22.2        K:  14.8       NH4:  0.0
SO4:    67.0      HCO3: 2089.4      Cl:   12.4      NO3:   0.2          F:  1.5
Sum Cations: 1834.7  Sum Anions: 2195.7  Cations/Anions: 0.84   Tot. P:   7.0
Tot. Al:   12.0    Ext. Al:   0.0    Fe:   30.0     Mn:     0.0    SiO2:  1.55

ID: 283-036   Name: DAM LAKE                          State: MI  Date: 25OCT84
Sample Type: REGULAR            Latitude: 46-10'57"N   Longitude: 86-43'15"W
Elevation:  239   Surface Temp:  5.9  Stratified: MIXED     Site Depth:   2.1
Lake Area:      22 Watershed Area:   1743 WA/LA:     77.8 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.2   Turbidity:   3.6     Color:   75
Closed pH: 7.65       Equil. pH: 8.40               ANC: 1251.9        DOC:  7.48
Closed DIC: 14.70   Equil. DIC: 14.07    Meas. Cond: 121.0   Cal. Cond: 141.5
Ca:  976.3           Mg:  359.5       Na:   34.1        K:  20.1       NH4:  5.0
SO4:    83.8      HCO3: 1158.4      Cl:   18.8      NO3:   5.5          F:  1.6
Sum Cations: 1395.0  Sum Anions: 1277.4  Cations/Anions: 1.09   Tot. P:   7.0
Tot. Al:   25.5    Ext. Al:   2.5    Fe:  890.0     Mn:    50.0    SiO2:  7.92

ID: 283-037   Name: RUMBLE LAKE                       State: MI  Date: 25OCT84
Sample Type: REGULAR            Latitude: 46-11'00"N   Longitude: 86-33'33"W
Elevation:  235   Surface Temp:  9.1  Stratified: MIXED     Site Depth:   7.6
Lake Area:       8 Watershed Area:     47 WA/LA:      6.2 Hydro Type: DRAINAGE
Residence Time:  1.19  Secchi Depth:  2.2   Turbidity:   0.8     Color:   10
Closed pH: 8.00       Equil. pH: 8.50               ANC: 1555.4        DOC:  3.46
Closed DIC: 17.76   Equil. DIC: 17.70    Meas. Cond: 155.1   Cal. Cond: 173.7
Ca: 1118.3           Mg:  486.2       Na:   41.3        K:  18.7       NH4:  3.9
SO4:   137.6      HCO3: 1454.0      Cl:   11.0      NO3:   0.0          F:  2.0
Sum Cations: 1668.3  Sum Anions: 1619.9  Cations/Anions: 1.03   Tot. P:   9.0
Tot. Al:    3.0    Ext. Al:   0.0    Fe:   10.0     Mn:     0.0    SiO2:  5.06
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B3-039   Name: STROUBLE LAKE                      State: MI  Date: 22OCT84
Sample Type: REGULAR            Latitude: 46-08'50"N    Longitude: 85-11'45"W
Elevation:  260   Surface Temp:  8.3  Stratified: MIXED      Site Depth:   1.0
Lake Area:     136 Watershed Area:    620 WA/LA:     4.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.0  Turbidity:   1.2     Color:   25
Closed pH: 7.85        Equil. pH: 8.23             ANC:  601.9        DOC:  9.20
Closed DIC:  6.72  Equil. DIC:  6.74   Meas. Cond:  73.0   Cal. Cond:  77.1
Ca:  469.6         Mg:  247.6        Na:   13.0        K:   3.3      NH4:  8.3
SO4:   98.1      HCO3:  537.5       Cl:   31.6      NO3:   1.4         F:  1.6
Sum Cations:  741.8  Sum Anions:  673.1  Cations/Anions: 1.10   Tot. P:   9.0
Tot. Al:   36.0    Ext. Al:   8.0     Fe:     0.0     Mn:     0.0    SiO2:  0.24

ID: 2B3-042   Name: PEACOCK LAKE                       State: MI  Date: 25OCT84
Sample Type: REGULAR            Latitude: 46-04'42"N    Longitude: 86-47'58"W
Elevation:  231   Surface Temp:  6.7  Stratified: MIXED      Site Depth:   1.2
Lake Area:       8 Watershed Area:     28 WA/LA:     3.7 Hydro Type: DRAINAGE
Residence Time:  0.29  Secchi Depth:  0.7  Turbidity:   3.2     Color:  135
Closed pH: 7.57        Equil. pH: 8.39             ANC: 1311.8        DOC: 20.10
Closed DIC: 14.77  Equil. DIC: 12.81   Meas. Cond: 127.6   Cal. Cond: 134.8
Ca:  933.6         Mg:  433.5        Na:   43.1        K:  18.7      NH4:  1.1
SO4:   36.4      HCO3: 1065.8       Cl:   22.3      NO3:   0.0         F:  2.4
Sum Cations: 1430.0  Sum Anions: 1133.6  Cations/Anions: 1.26   Tot. P:  18.0
Tot. Al:   23.0    Ext. Al:   3.0     Fe: 1090.0     Mn:    40.0    SiO2:  3.02

ID: 2B3-043   Name: CLEAR SLOUGH                       State: MI  Date: 24OCT84
Sample Type: REGULAR            Latitude: 46-02'25"N    Longitude: 86-12'30"W
Elevation:  184   Surface Temp:  6.7  Stratified: MIXED      Site Depth:   1.0
Lake Area:      10 Watershed Area:    184 WA/LA:    18.2 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  1.0  Turbidity:   0.8     Color:   75
Closed pH: 7.32        Equil. pH: 8.54             ANC: 1195.0        DOC: 10.70
Closed DIC: 13.93  Equil. DIC: 13.04   Meas. Cond: 137.5   Cal. Cond: 155.1
Ca:  971.1         Mg:  459.0        Na:   45.2        K:  19.6      NH4:  1.7
SO4:  245.5      HCO3: 1065.3       Cl:   23.4      NO3:   0.6         F:  1.9
Sum Cations: 1496.6  Sum Anions: 1339.8  Cations/Anions: 1.12   Tot. P:  19.0
Tot. Al:   39.0    Ext. Al:   7.0     Fe:  180.0     Mn:     0.0    SiO2:  6.05

ID: 2B3-049   Name: TIGHE LAKE                         State: MI  Date: 24OCT84
Sample Type: REGULAR            Latitude: 45-54'28"N    Longitude: 86-26'58"W
Elevation:  218   Surface Temp:  7.0  Stratified: MIXED      Site Depth:   1.0
Lake Area:       5 Watershed Area:     60 WA/LA:    12.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.6  Turbidity:   0.7     Color:  125
Closed pH: 6.08        Equil. pH: 6.86             ANC:   78.0        DOC: 13.50
Closed DIC:  0.99  Equil. DIC:  0.36   Meas. Cond:  26.7   Cal. Cond:  25.2
Ca:  111.8         Mg:   96.2        Na:   18.3        K:   7.7      NH4: 29.9
SO4:   84.7      HCO3:   29.7       Cl:   13.0      NO3:   4.3         F:  1.5
Sum Cations:  264.8  Sum Anions:  133.2  Cations/Anions: 1.99   Tot. P:  17.0
Tot. Al:  162.0    Ext. Al:  47.0     Fe:  340.0     Mn:    10.0    SiO2:  1.78

ID: 2B3-051   Name: JOHNS LAKES (WESTERN)              State: MI  Date: 23OCT84
Sample Type: REGULAR            Latitude: 46-31'50"N    Longitude: 85-54'16"W
Elevation:  289   Surface Temp:  9.5  Stratified: STRONG     Site Depth:  18.9
Lake Area:       7 Watershed Area:     26 WA/LA:     3.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.7  Turbidity:   0.4     Color:   15
Closed pH: 4.91        Equil. pH: 4.85             ANC:   -7.1        DOC:  3.60
Closed DIC:  0.62  Equil. DIC:  0.17   Meas. Cond:  13.8   Cal. Cond:  14.3
Ca:   25.9         Mg:   17.3        Na:    5.2        K:  15.0      NH4:  2.8
SO4:   58.1      HCO3:    1.2       Cl:    5.4      NO3:   0.3         F:  0.7
Sum Cations:   80.7  Sum Anions:   65.6  Cations/Anions: 1.23   Tot. P:   1.0
Tot. Al:   42.0    Ext. Al:  13.0     Fe:   40.0     Mn:   470.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B3-052   Name: FRENCHMANS LAKE                   State: MI  Date: 23OCT84
Sample Type: REGULAR            Latitude: 46-21'42"N    Longitude: 85-21'00"W
Elevation:  215   Surface Temp:  6.5  Stratified: MIXED      Site Depth:   0.9
Lake Area:      10 Watershed Area:     67 WA/LA:      6.4 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  0.9  Turbidity:   1.7     Color:   130
Closed pH: 7.09       Equil. pH: 8.40             ANC:  995.0        DOC:  2.40
Closed DIC: 11.69   Equil. DIC:  9.97    Meas. Cond: 110.0   Cal. Cond: 119.6
Ca:  764.5          Mg:  382.5       Na:   70.9         K:  22.3      NH4:  6.7
SO4:   82.7       HCO3:  850.4       Cl:   44.6       NO3:   1.1        F:  2.2
Sum Cations: 1246.9  Sum Anions:  982.6  Cations/Anions: 1.27   Tot. P:  27.0
Tot. Al:  146.0     Ext. Al:  15.0     Fe:  480.0      Mn:    0.0    SiO2:  6.85

ID: 2B3-054   Name: STUMP LAKE                        State: MI  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-18'55"N    Longitude: 87-23'38"W
Elevation:  334   Surface Temp: 13.1  Stratified: MIXED      Site Depth:   0.9
Lake Area:      11 Watershed Area:    495 WA/LA:     44.2 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  1.0  Turbidity:   2.3     Color:    20
Closed pH: 7.92       Equil. pH: 8.58             ANC: 1284.0        DOC:  1.90
Closed DIC: 14.84   Equil. DIC: 14.14    Meas. Cond: 164.1   Cal. Cond: 159.9
Ca: 1080.3          Mg:  287.1       Na:  174.9         K:  26.1      NH4:  1.7
SO4:  101.8       HCO3: 1173.2       Cl:  109.2       NO3:   6.5        F:  1.2
Sum Cations: 1570.1  Sum Anions: 1398.6  Cations/Anions: 1.12   Tot. P:  13.0
Tot. Al:   43.0     Ext. Al:   3.0     Fe:   70.0      Mn:   10.0    SiO2:  5.64

ID: 2B3-055   Name: (NO NAME)                         State: MI  Date: 25OCT84
Sample Type: REGULAR            Latitude: 46-15'52"N    Longitude: 86-39'37"W
Elevation:  247   Surface Temp:  6.5  Stratified: MIXED      Site Depth:   2.4
Lake Area:       6 Watershed Area:     41 WA/LA:      7.4 Hydro Type: DRAINAGE
Residence Time:  0.32  Secchi Depth:  2.4  Turbidity:   0.4     Color:    20
Closed pH: 7.41       Equil. pH: 8.29             ANC:  890.1        DOC:  2.54
Closed DIC: 11.13   Equil. DIC: 10.72    Meas. Cond:  92.9   Cal. Cond: 103.3
Ca:  684.6          Mg:  289.6       Na:   31.3         K:  23.0      NH4:  0.6
SO4:   94.7       HCO3:  801.4       Cl:    5.6       NO3:   0.0        F:  1.4
Sum Cations: 1029.1  Sum Anions:  906.0  Cations/Anions: 1.14   Tot. P:   9.0
Tot. Al:    7.0     Ext. Al:   0.0     Fe:   40.0      Mn:    0.0    SiO2:  6.19

ID: 2B3-056   Name: PINERY LAKES (LARGEST)            State: MI  Date: 17OCT84
Sample Type: REGULAR            Latitude: 46-46'03"N    Longitude: 88-23'30"W
Elevation:  253   Surface Temp: 12.8  Stratified: MIXED      Site Depth:   2.4
Lake Area:       9 Watershed Area:    194 WA/LA:     21.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.1  Turbidity:   1.3     Color:    50
Closed pH: 6.90       Equil. pH: 8.12             ANC:  514.0        DOC:  8.00
Closed DIC:  7.34   Equil. DIC:  6.21    Meas. Cond:  56.4   Cal. Cond:  58.2
Ca:  374.3          Mg:  136.6       Na:   33.9         K:  19.9      NH4:  0.0
SO4:   31.0       HCO3:  487.9       Cl:   15.2       NO3:   0.0        F:  2.1
Sum Cations:  564.8  Sum Anions:  536.7  Cations/Anions: 1.05   Tot. P:  13.0
Tot. Al:   24.0     Ext. Al:   2.0     Fe:  200.0      Mn:    0.0    SiO2:  3.17

ID: 2B3-057   Name: TWIN LAKE                         State: MI  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-27'50"N    Longitude: 87-59'57"W
Elevation:  488   Surface Temp: 12.6  Stratified: MIXED      Site Depth:   3.0
Lake Area:      19 Watershed Area:     98 WA/LA:      5.3 Hydro Type: DRAINAGE
Residence Time:  0.55  Secchi Depth:  1.5  Turbidity:   1.7     Color:    45
Closed pH: 6.83       Equil. pH: 7.71             ANC:  184.0        DOC:  5.00
Closed DIC:  2.75   Equil. DIC:  2.02    Meas. Cond:  29.5   Cal. Cond:  29.7
Ca:  131.7          Mg:  106.1       Na:   25.2         K:  13.8      NH4:  0.0
SO4:   70.4       HCO3:  160.7       Cl:   11.8       NO3:   1.5        F:  1.8
Sum Cations:  277.0  Sum Anions:  246.4  Cations/Anions: 1.12   Tot. P:  12.0
Tot. Al:   21.0     Ext. Al:   2.0     Fe:  160.0      Mn:   10.0    SiO2:  5.66
```

(continued)

TABLE 3-1 (continued)

```
ID: 283-058   Name: LAKE ANNIE                        State: MI  Date: 18OCT84
Sample Type: REGULAR            Latitude: 47-10'39"N   Longitude: 88-35'25"W
Elevation:  293   Surface Temp: 11.9  Stratified: MIXED      Site Depth:   1.8
Lake Area:      13 Watershed Area:      91 WA/LA:      6.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.8   Turbidity:   1.0     Color:    15
Closed pH: 6.25       Equil. pH: 6.77               ANC:   32.0        DOC:  3.40
Closed DIC:  0.61   Equil. DIC:  0.38    Meas. Cond:  11.4   Cal. Cond:  10.7
Ca:   36.4          Mg:   27.1        Na:   17.0         K:  11.0       NH4:  0.0
SO4:   43.7       HCO3:   24.2       Cl:    7.9        NO3:    1.5         F:  0.9
Sum Cations:   91.9  Sum Anions:    78.3  Cations/Anions: 1.17   Tot. P:  13.0
Tot. Al:   93.0   Ext. Al:  12.0    Fe:    10.0     Mn:     0.0    SiO2:  0.00

ID: 283-059   Name: SPRING LAKE                       State: MI  Date: 25OCT84
Sample Type: REGULAR            Latitude: 46-05'38"N   Longitude: 86-32'16"W
Elevation:  229   Surface Temp:  7.3  Stratified: MIXED      Site Depth:   2.9
Lake Area:       5 Watershed Area:     111 WA/LA:     24.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.1   Turbidity:   0.6     Color:    15
Closed pH: 8.13       Equil. pH: 8.46               ANC: 1390.7        DOC:  3.37
Closed DIC: 16.20   Equil. DIC: 16.50    Meas. Cond: 142.2   Cal. Cond: 166.2
Ca: 1021.5          Mg:  555.3        Na:   28.3         K:  16.1       NH4:  0.6
SO4:  125.3       HCO3: 1379.8       Cl:   11.0        NO3:    0.0         F:  1.5
Sum Cations: 1621.7  Sum Anions: 1533.1  Cations/Anions: 1.06   Tot. P:  12.0
Tot. Al:    4.0   Ext. Al:   4.0    Fe:     0.0     Mn:    10.0    SiO2:  5.08

ID: 283-060   Name: BOG LAKE                          State: WI  Date: 05NOV84
Sample Type: REGULAR            Latitude: 46-29'47"N   Longitude: 91-19'38"W
Elevation:  326   Surface Temp:  4.0  Stratified: MIXED      Site Depth:   1.2
Lake Area:       5 Watershed Area:     184 WA/LA:     37.9 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.2   Turbidity:   0.9     Color:    23
Closed pH: 7.80       Equil. pH: 8.52               ANC: 1703.9        DOC:  3.10
Closed DIC: 20.48   Equil. DIC: 20.56    Meas. Cond: 168.1   Cal. Cond: 186.4
Ca: 1156.2          Mg:  466.4        Na:   97.0         K:  25.3       NH4:  0.0
SO4:   89.9       HCO3: 1700.8       Cl:   28.8        NO3:    0.0         F:  3.1
Sum Cations: 1744.9  Sum Anions: 1836.1  Cations/Anions: 0.95   Tot. P:  20.0
Tot. Al:    2.0   Ext. Al:   0.0    Fe:    50.0     Mn:    10.0    SiO2: 17.57

ID: 283-061   Name: GRASS LAKE                        State: MI  Date: 22OCT84
Sample Type: REGULAR            Latitude: 46-14'17"N   Longitude: 85-23'28"W
Elevation:  249   Surface Temp:  8.7  Stratified: MIXED      Site Depth:   1.5
Lake Area:       7 Watershed Area:     122 WA/LA:     17.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.5   Turbidity:   0.9     Color:    30
Closed pH: 8.34       Equil. pH: 8.79               ANC: 2323.0        DOC:  4.80
Closed DIC: 24.59   Equil. DIC: 25.48    Meas. Cond: 219.2   Cal. Cond: 241.0
Ca: 1565.9          Mg:  677.8        Na:   37.8         K:  12.9       NH4:  4.4
SO4:  155.7       HCO3: 2094.1       Cl:   14.7        NO3:    0.1         F:  2.7
Sum Cations: 2298.9  Sum Anions: 2293.6  Cations/Anions: 1.00   Tot. P:   7.0
Tot. Al:   13.0   Ext. Al:   3.0    Fe:    30.0     Mn:     0.0    SiO2:  2.09

ID: 283-062   Name: MUD LAKE                          State: MI  Date: 22OCT84
Sample Type: REGULAR            Latitude: 46-16'38"N   Longitude: 84-30'08"W
Elevation:  223   Surface Temp:  8.3  Stratified: MIXED      Site Depth:   0.9
Lake Area:       4 Watershed Area:     666 WA/LA:    175.3 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  0.6   Turbidity:   1.0     Color:   145
Closed pH: 5.98       Equil. pH: 6.90               ANC:  146.0        DOC: 22.50
Closed DIC:  3.08   Equil. DIC:  0.67    Meas. Cond:  64.2   Cal. Cond:  63.5
Ca:  193.1          Mg:  166.2        Na:  244.9         K:  16.1       NH4:  3.3
SO4:   23.1       HCO3:   67.0       Cl:  310.9        NO3:    5.6         F:  5.5
Sum Cations:  624.5  Sum Anions:   412.0  Cations/Anions: 1.52   Tot. P: 146.0
Tot. Al:  157.0   Ext. Al:  50.0    Fe:   570.0     Mn:    20.0    SiO2:  1.79
```

(continued)

TABLE 3-1 (continued)

```
ID: 283-067   Name: (NO NAME)                     State: MI  Date: 20OCT84
Sample Type: REGULAR            Latitude: 47-55'15"N   Longitude: 88-59'00"W
Elevation:  204   Surface Temp:  7.4  Stratified: MIXED      Site Depth:   0.9
Lake Area:      5 Watershed Area:     161 WA/LA:    34.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.9  Turbidity:  0.9     Color:   27
Closed pH: 7.78       Equil. pH: 8.36            ANC: 1020.7        DOC:  5.40
Closed DIC: 12.00   Equil. DIC: 11.71    Meas. Cond:  97.8   Cal. Cond: 112.1
Ca:  761.5          Mg:  258.3       Na:   74.8        K:   6.6      NH4:  0.0
SO4:   29.8        HCO3: 1018.7      Cl:    6.2      NO3:   0.0        F:  1.3
Sum Cations: 1101.3  Sum Anions: 1065.2  Cations/Anions: 1.03   Tot. P:  15.0
Tot. Al:     4.0    Ext. Al:    4.0    Fe:  140.0      Mn:    0.0    SiO2:  4.50

ID: 283-069   Name: ROSS LAKE                     State: MI  Date: 20OCT84
Sample Type: REGULAR            Latitude: 46-28'50"N   Longitude: 86-15'30"W
Elevation:  265   Surface Temp: 10.4  Stratified: MIXED      Site Depth:   6.4
Lake Area:     78 Watershed Area:    1207 WA/LA:    15.5 Hydro Type: DRAINAGE
Residence Time:  0.45  Secchi Depth:  2.1  Turbidity:  1.8     Color:   35
Closed pH: 7.84       Equil. pH: 8.40            ANC: 1198.2        DOC: 15.00
Closed DIC: 13.76   Equil. DIC: 12.23    Meas. Cond: 122.3   Cal. Cond: 125.3
Ca:  906.2          Mg:  321.6       Na:   34.8        K:  16.1      NH4:  0.5
SO4:   86.6        HCO3:  966.2      Cl:    8.5      NO3:   0.7        F:  1.7
Sum Cations: 1279.2  Sum Anions: 1073.6  Cations/Anions: 1.19   Tot. P:  19.0
Tot. Al:    25.0    Ext. Al:    6.0    Fe:  120.0      Mn:    0.0    SiO2:  7.40

ID: 283-070   Name: MICHIGAMME BASIN              State: MI  Date: 16OCT84
Sample Type: REGULAR            Latitude: 46-23'36"N   Longitude: 87-59'19"W
Elevation:  454   Surface Temp: 13.2  Stratified: MIXED      Site Depth:   2.4
Lake Area:     31 Watershed Area:   28392 WA/LA:   915.9 Hydro Type: RESERVOIR
Residence Time:  0.00  Secchi Depth:  1.9  Turbidity:  0.9     Color:   60
Closed pH: 7.10       Equil. pH: 7.79            ANC:  254.0        DOC:  7.10
Closed DIC:  3.19   Equil. DIC:  2.58    Meas. Cond:  47.2   Cal. Cond:  49.0
Ca:  243.0          Mg:  149.7       Na:   50.9        K:  16.9      NH4:  0.0
SO4:  128.9        HCO3:  205.1      Cl:   36.7      NO3:   6.4        F:  1.8
Sum Cations:  460.6  Sum Anions:  379.1  Cations/Anions: 1.21   Tot. P:   5.0
Tot. Al:    70.0    Ext. Al:   12.0    Fe:  210.0      Mn:   10.0    SiO2:  5.63

ID: 283-071   Name: OSTRANDER LAKE                State: MI  Date: 25OCT84
Sample Type: REGULAR            Latitude: 46-10'05"N   Longitude: 86-36'43"W
Elevation:  235   Surface Temp: 10.1  Stratified: MIXED      Site Depth:   9.1
Lake Area:     22 Watershed Area:      65 WA/LA:     3.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.8  Turbidity:  0.7     Color:   15
Closed pH: 7.05       Equil. pH: 7.59            ANC:  163.2        DOC:  4.80
Closed DIC:  2.03   Equil. DIC:  1.76    Meas. Cond:  22.2   Cal. Cond:  29.2
Ca:  207.1          Mg:   42.8       Na:   10.0        K:   9.7      NH4:  1.1
SO4:   77.4        HCO3:  140.9      Cl:    9.9      NO3:   0.0        F:  0.9
Sum Cations:  270.8  Sum Anions:  229.4  Cations/Anions: 1.18   Tot. P:  11.0
Tot. Al:    16.0    Ext. Al:    0.0    Fe:   10.0      Mn:    0.0    SiO2:  0.09

ID: 283-072   Name: STUART LAKE                   State: MI  Date: 24OCT84
Sample Type: REGULAR            Latitude: 46-11'53"N   Longitude: 85-51'10"W
Elevation:  212   Surface Temp:  6.8  Stratified: MIXED      Site Depth:   1.1
Lake Area:     12 Watershed Area:     798 WA/LA:    64.9 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  0.7  Turbidity:  0.7     Color:  125
Closed pH: 7.67       Equil. pH: 8.69            ANC: 1777.0        DOC: 20.00
Closed DIC: 18.88   Equil. DIC: 18.08    Meas. Cond: 169.5   Cal. Cond: 190.4
Ca: 1195.6          Mg:  706.6       Na:   47.8        K:  19.2      NH4:  2.2
SO4:   77.9        HCO3: 1524.0      Cl:   40.6      NO3:   0.8        F:  2.6
Sum Cations: 1971.5  Sum Anions: 1652.8  Cations/Anions: 1.19   Tot. P:  21.0
Tot. Al:    14.0    Ext. Al:    2.0    Fe:   90.0      Mn:    0.0    SiO2:  6.68
```

(continued)

TABLE 3-1 (continued)

```
ID: 2B3-075   Name: CAMP 10 LAKE                  State: MI  Date: 14OCT84
Sample Type: REGULAR           Latitude: 46-40'55"N   Longitude: 88-09'30"W
Elevation:  546   Surface Temp: 13.3  Stratified: MIXED     Site Depth:   1.2
Lake Area:      6 Watershed Area:    205 WA/LA:    36.6 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.7   Turbidity:   0.5     Color:  143
Closed pH: 6.67       Equil. pH: 7.56             ANC:  254.5        DOC: 19.40
Closed DIC:  3.17   Equil. DIC:  2.05    Meas. Cond:  33.6   Cal. Cond:  33.5
Ca:  255.2          Mg:    95.4      Na:    25.2        K:    7.3      NH4:  0.3
SO4:    29.9      HCO3:  186.1       Cl:     5.5      NO3:    2.8        F:  1.3
Sum Cations:  383.6  Sum Anions:  225.7  Cations/Anions: 1.70   Tot. P:  16.0
Tot. Al:  123.0    Ext. Al:  40.5     Fe:  465.0      Mn:   10.0     SiO2:  6.16

ID: 2B3-076   Name: SWAMP LKS.(LG.EAST)           State: MI  Date: 23OCT84
Sample Type: REGULAR           Latitude: 46-36'20"N   Longitude: 85-23'39"W
Elevation:  227   Surface Temp:  6.6  Stratified: MIXED     Site Depth:   0.9
Lake Area:      5 Watershed Area:     23 WA/LA:     4.8 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  0.6   Turbidity:   2.2     Color:   45
Closed pH: 4.51       Equil. pH: 4.49             ANC:  -44.1        DOC:  9.50
Closed DIC:  0.46   Equil. DIC:  0.18    Meas. Cond:  17.5   Cal. Cond:  17.7
Ca:   13.0          Mg:    11.5      Na:     4.8        K:    4.7      NH4:  4.4
SO4:    35.6      HCO3:    0.4       Cl:     1.1      NO3:    0.2        F:  0.7
Sum Cations:   73.9  Sum Anions:   38.1  Cations/Anions: 1.94   Tot. P:  22.0
Tot. Al:   67.0    Ext. Al:  22.0     Fe:   50.0      Mn:   20.0     SiO2:  0.00

ID: 2B3-077   Name: MCDONALD LAKE                 State: MI  Date: 24OCT84
Sample Type: REGULAR           Latitude: 45-59'00"N   Longitude: 85-58'28"W
Elevation:  186   Surface Temp:  7.8  Stratified: MIXED     Site Depth:   1.6
Lake Area:    578 Watershed Area:   4815 WA/LA:     8.3 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  0.5   Turbidity:   2.7     Color:   45
Closed pH: 8.04       Equil. pH: 8.65             ANC: 1553.0        DOC: 11.30
Closed DIC: 16.23   Equil. DIC: 16.58    Meas. Cond: 179.5   Cal. Cond: 203.4
Ca: 1102.3          Mg:   760.9      Na:    99.2        K:    8.6      NH4:  1.7
SO4:   281.3      HCO3: 1348.4       Cl:   106.4      NO3:    2.1        F:  4.3
Sum Cations: 1972.7  Sum Anions: 1753.7  Cations/Anions: 1.12   Tot. P:  19.0
Tot. Al:   84.0    Ext. Al:   4.0     Fe:   30.0      Mn:    0.0     SiO2:  1.71

ID: 2B3-079   Name: NELLIGAN LAKE                 State: MI  Date: 14OCT84
Sample Type: REGULAR           Latitude: 46-33'50"N   Longitude: 88-08'07"W
Elevation:  515   Surface Temp: 13.8  Stratified: MIXED     Site Depth:   1.2
Lake Area:     13 Watershed Area:    311 WA/LA:    24.3 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  1.1   Turbidity:   1.0     Color:  120
Closed pH: 6.43       Equil. pH: 7.10             ANC:  113.0        DOC: 15.10
Closed DIC:  1.46   Equil. DIC:  0.76    Meas. Cond:  32.6   Cal. Cond:  32.5
Ca:  163.2          Mg:   104.5      Na:    38.7        K:   13.0      NH4:  0.0
SO4:   123.7      HCO3:   69.0       Cl:    13.8      NO3:    1.6        F:  1.3
Sum Cations:  319.7  Sum Anions:  209.5  Cations/Anions: 1.53   Tot. P:  18.0
Tot. Al:  131.0    Ext. Al:  41.0     Fe:  220.0      Mn:    0.0     SiO2:  2.22

ID: 2C1-001   Name: BALCOMB LAKE                  State: MI  Date: 03NOV84
Sample Type: REGULAR           Latitude: 46-23'02"N   Longitude: 88-57'15"W
Elevation:  497   Surface Temp:  2.2  Stratified: MIXED     Site Depth:   7.0
Lake Area:      4 Watershed Area:     44 WA/LA:    10.2 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  3.4   Turbidity:   0.3     Color:   25
Closed pH: 5.61       Equil. pH: 5.88             ANC:   13.0        DOC:  3.70
Closed DIC:  0.52   Equil. DIC:  0.19    Meas. Cond:  11.3   Cal. Cond:  11.0
Ca:   32.9          Mg:    23.9      Na:     7.0        K:   13.8      NH4:  1.1
SO4:    60.4      HCO3:    5.3       Cl:     4.8      NO3:    0.5        F:  0.6
Sum Cations:   81.1  Sum Anions:   71.6  Cations/Anions: 1.13   Tot. P:  10.0
Tot. Al:   42.0    Ext. Al:  18.0     Fe:   70.0      Mn:   30.0     SiO2:  0.28
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C1-003   Name: TINSEL LAKE                        State: MI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 46-21'40"N    Longitude: 88-58'55"W
Elevation:  508   Surface Temp:  1.5  Stratified: MIXED      Site Depth:   3.0
Lake Area:      6 Watershed Area:      54 WA/LA:      8.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.1  Turbidity:  0.4     Color:   30
Closed pH: 5.98      Equil. pH: 6.25                ANC:   22.0        DOC:  5.70
Closed DIC:  0.44  Equil. DIC:  0.31    Meas. Cond:  10.1   Cal. Cond:   9.4
Ca:   34.4          Mg:   24.7        Na:      7.4        K:  15.3      NH4:  0.0
SO4:   40.8       HCO3:     9.5      Cl:     4.8      NO3:   0.0         F:  0.6
Sum Cations:   83.2  Sum Anions:    55.7  Cations/Anions: 1.49   Tot. P:  12.0
Tot. Al:   34.0    Ext. Al:   8.0     Fe:    30.0      Mn:    10.0    SiO2:  0.13

ID: 2C1-004   Name: FOREST LAKE                        State: MI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 46-19'35"N    Longitude: 88-57'05"W
Elevation:  507   Surface Temp:  4.3  Stratified: MIXED      Site Depth:   8.5
Lake Area:     18 Watershed Area:      31 WA/LA:      1.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  6.7  Turbidity:  0.2     Color:   10
Closed pH: 5.49      Equil. pH: 5.67                ANC:    1.0        DOC:  2.70
Closed DIC:  0.43  Equil. DIC:  0.16    Meas. Cond:  12.8   Cal. Cond:  13.5
Ca:   36.9          Mg:   27.1        Na:      7.4        K:  13.8      NH4:  0.0
SO4:   83.3       HCO3:     3.3      Cl:     2.5      NO3:   0.0         F:  0.6
Sum Cations:   89.3  Sum Anions:    89.7  Cations/Anions: 1.00   Tot. P:   7.0
Tot. Al:   25.0    Ext. Al:   8.0     Fe:    10.0      Mn:     0.0    SiO2:  0.05

ID: 2C1-005   Name: ROBINSON LAKE                      State: MI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 46-21'20"N    Longitude: 88-55'00"W
Elevation:  492   Surface Temp:  3.4  Stratified: MIXED      Site Depth:   5.3
Lake Area:     31 Watershed Area:     101 WA/LA:      3.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  5.3  Turbidity:  0.2     Color:   10
Closed pH: 5.15      Equil. pH: 5.24                ANC:    9.0        DOC:  2.00
Closed DIC:  0.32  Equil. DIC:  0.13    Meas. Cond:  16.0   Cal. Cond:  17.0
Ca:   46.9          Mg:   24.7        Na:      8.7        K:  12.5      NH4:  0.0
SO4:   98.1       HCO3:     1.2      Cl:     8.2      NO3:   2.8         F:  0.6
Sum Cations:  100.8  Sum Anions:   110.9  Cations/Anions: 0.91   Tot. P:   8.0
Tot. Al:   40.0    Ext. Al:  23.0     Fe:    10.0      Mn:    30.0    SiO2:  0.08

ID: 2C1-007   Name: JOHN LAKE                          State: WI  Date: 09OCT84
Sample Type: REGULAR              Latitude: 46-13'45"N    Longitude: 89-38'55"W
Elevation:  519   Surface Temp: 11.6  Stratified: STRONG     Site Depth:  14.3
Lake Area:      5 Watershed Area:      26 WA/LA:      5.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.9  Turbidity:  0.3     Color:   70
Closed pH: 6.19      Equil. pH: 6.88                ANC:   69.0        DOC:  8.60
Closed DIC:  1.50  Equil. DIC:  0.53    Meas. Cond:  19.6   Cal. Cond:  19.0
Ca:   93.8          Mg:   52.6        Na:     16.1        K:  15.3      NH4:  0.6
SO4:   68.9       HCO3:    39.3      Cl:    13.5      NO3:   1.1         F:  1.0
Sum Cations:  179.0  Sum Anions:   123.9  Cations/Anions: 1.44   Tot. P:  10.0
Tot. Al:  109.0    Ext. Al:  63.0     Fe:   150.0      Mn:    30.0    SiO2:  0.62

ID: 2C1-008   Name: RUSSET LAKE                        State: WI  Date: 09OCT84
Sample Type: REGULAR              Latitude: 46-11'50"N    Longitude: 89-36'30"W
Elevation:  510   Surface Temp: 12.4  Stratified: WEAK       Site Depth:  11.0
Lake Area:     19 Watershed Area:     145 WA/LA:      7.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.6  Turbidity:  0.5     Color:   45
Closed pH: 5.90      Equil. pH: 6.28                ANC:   19.0        DOC:  5.60
Closed DIC:  0.56  Equil. DIC:  0.18    Meas. Cond:  13.8   Cal. Cond:  13.2
Ca:   53.4          Mg:   34.5        Na:      9.6        K:  14.1      NH4:  0.6
SO4:   65.4       HCO3:     9.5      Cl:     5.9      NO3:   0.0         F:  0.9
Sum Cations:  113.5  Sum Anions:    81.7  Cations/Anions: 1.39   Tot. P:   2.0
Tot. Al:   56.0    Ext. Al:  32.0     Fe:   160.0      Mn:    20.0    SiO2:  0.15
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C1-010   Name: ISHKOTE LAKE                      State: MI  Date: 10OCT84
Sample Type: REGULAR             Latitude: 46-07'25"N   Longitude: 88-59'30"W
Elevation:  526   Surface Temp: 12.6  Stratified: MIXED      Site Depth:   5.2
Lake Area:      6 Watershed Area:    231 WA/LA:     36.7 Hydro Type: DRAINAGE
Residence Time:  0.24  Secchi Depth:  5.0   Turbidity:   0.2      Color:    20
Closed pH: 6.05        Equil. pH: 6.36              ANC:   22.0        DOC:  3.80
Closed DIC:  0.69   Equil. DIC:  0.34    Meas. Cond:  17.8   Cal. Cond:  18.7
Ca:   76.3          Mg:    40.3        Na:    10.4         K:  14.3      NH4:  0.6
SO4:  109.7       HCO3:    19.3       Cl:    6.5        NO3:   0.0         F:  0.7
Sum Cations:  142.7  Sum Anions:  136.2  Cations/Anions: 1.05   Tot. P:   7.0
Tot. Al:   41.0    Ext. Al:  15.0     Fe:    10.0      Mn:    10.0    SiO2:  0.34

ID: 2C1-011   Name: WARVET LAKE                       State: WI  Date: 10OCT84
Sample Type: REGULAR             Latitude: 46-05'15"N   Longitude: 89-07'05"W
Elevation:  523   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   6.1
Lake Area:      7 Watershed Area:    280 WA/LA:     37.8 Hydro Type: DRAINAGE
Residence Time:  0.28  Secchi Depth:  1.2   Turbidity:   0.6      Color:    55
Closed pH: 5.94        Equil. pH: 6.76              ANC:   44.0        DOC:  7.10
Closed DIC:  1.22   Equil. DIC:  0.34    Meas. Cond:  22.6   Cal. Cond:  23.3
Ca:   69.4          Mg:    43.6        Na:    52.6         K:  19.4      NH4:  2.8
SO4:   80.4       HCO3:    25.5       Cl:   60.7        NO3:   0.1         F:  0.9
Sum Cations:  188.8  Sum Anions:  167.6  Cations/Anions: 1.13   Tot. P:  19.0
Tot. Al:   81.0    Ext. Al:  42.0     Fe:   100.0      Mn:    20.0    SiO2:  0.49

ID: 2C1-013   Name: OSCEOLA LAKE                      State: WI  Date: 06NOV84
Sample Type: REGULAR             Latitude: 46-07'32"N   Longitude: 89-19'02"W
Elevation:  513   Surface Temp:  2.5  Stratified: MIXED      Site Depth:   2.7
Lake Area:     14 Watershed Area:     28 WA/LA:      2.0 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.7   Turbidity:   1.7      Color:    15
Closed pH: 7.61        Equil. pH: 8.01              ANC:  593.8        DOC:  3.20
Closed DIC:  7.05   Equil. DIC:  7.44    Meas. Cond:  60.0   Cal. Cond:  65.1
Ca:  352.0          Mg:   186.7        Na:    59.2         K:  12.1      NH4:  2.2
SO4:   44.3       HCO3:   575.6       Cl:   10.0        NO3:   0.3         F:  2.3
Sum Cations:  612.3  Sum Anions:  634.8  Cations/Anions: 0.96   Tot. P:   8.0
Tot. Al:    7.0    Ext. Al:   2.0     Fe:    55.0      Mn:     0.0    SiO2:  8.86

ID: 2C1-014   Name: LAKE PLEASANT                     State: WI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 46-06'05"N   Longitude: 89-13'35"W
Elevation:  509   Surface Temp:  4.2  Stratified: MIXED      Site Depth:  11.0
Lake Area:      6 Watershed Area:     16 WA/LA:      2.7 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  3.1   Turbidity:   0.6      Color:    25
Closed pH: 5.83        Equil. pH: 6.44              ANC:   12.0        DOC:  4.00
Closed DIC:  0.89   Equil. DIC:  0.30    Meas. Cond:  13.8   Cal. Cond:  14.0
Ca:   43.4          Mg:    28.0        Na:    18.3         K:  12.5      NH4:  7.2
SO4:   62.3       HCO3:    15.6       Cl:   18.1        NO3:   0.5         F:  0.6
Sum Cations:  110.7  Sum Anions:   97.0  Cations/Anions: 1.14   Tot. P:  14.0
Tot. Al:   38.0    Ext. Al:   9.0     Fe:   180.0      Mn:    10.0    SiO2:  0.09

ID: 2C1-015   Name: TORCH LAKE                        State: WI  Date: 30OCT84
Sample Type: REGULAR             Latitude: 46-01'25"N   Longitude: 89-16'30"W
Elevation:  504   Surface Temp:  7.0  Stratified: MIXED      Site Depth:   4.3
Lake Area:     16 Watershed Area:     96 WA/LA:      6.0 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  4.2   Turbidity:   0.4      Color:    15
Closed pH: 5.70        Equil. pH: 5.88              ANC:    3.4        DOC:  4.00
Closed DIC:  0.28   Equil. DIC:  0.29    Meas. Cond:  13.4   Cal. Cond:  13.5
Ca:   43.4          Mg:    25.5        Na:    18.3         K:   8.4      NH4:  0.6
SO4:   64.8       HCO3:     4.6       Cl:   19.5        NO3:   0.2         F:  0.9
Sum Cations:   99.2  Sum Anions:   89.9  Cations/Anions: 1.10   Tot. P:  15.0
Tot. Al:   34.0    Ext. Al:   8.0     Fe:    30.0      Mn:    20.0    SiO2:  0.12
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C1-016   Name: HONEYSUCKLE LAKE                 State: WI  Date: 30OCT84
Sample Type: REGULAR           Latitude: 45-57'45"N    Longitude: 89-21'35"W
Elevation:  502   Surface Temp:  6.4  Stratified: MIXED      Site Depth:   3.0
Lake Area:      14 Watershed Area:     101 WA/LA:      7.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.0  Turbidity:   0.5     Color:   10
Closed pH: 4.74        Equil. pH: 4.77              ANC:  -31.3       DOC:  1.90
Closed DIC:  0.36   Equil. DIC:  0.25    Meas. Cond:  19.7   Cal. Cond:  19.8
Ca:   34.9         Mg:    26.3       Na:     7.0       K:  10.2      NH4:  0.0
SO4:    91.4      HCO3:     0.7      Cl:     6.5      NO3:    0.8        F:  0.8
Sum Cations:   99.3  Sum Anions:   100.1  Cations/Anions: 0.99   Tot. P:   8.0
Tot. Al:   43.0    Ext. Al:  26.0     Fe:     0.0     Mn:    40.0    SiO2:  0.02

ID: 2C1-017   Name: EDITH LAKE                       State: WI  Date: 06NOV84
Sample Type: REGULAR           Latitude: 46-05'15"N    Longitude: 89-42'25"W
Elevation:  495   Surface Temp:  4.1  Stratified: MIXED      Site Depth:   6.4
Lake Area:      24 Watershed Area:     104 WA/LA:      4.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.0  Turbidity:   1.1     Color:   15
Closed pH: 6.12        Equil. pH: 6.63              ANC:   21.1       DOC:  3.00
Closed DIC:  0.43   Equil. DIC:  0.28    Meas. Cond:  11.4   Cal. Cond:  13.6
Ca:   60.4         Mg:    23.9       Na:     9.6       K:  10.7      NH4:  0.5
SO4:   76.6       HCO3:    10.6      Cl:     5.9      NO3:    0.9        F:  0.7
Sum Cations:  105.9  Sum Anions:    94.7  Cations/Anions: 1.12   Tot. P:   7.0
Tot. Al:   28.0    Ext. Al:  14.0     Fe:    20.0     Mn:    10.0    SiO2:  0.13

ID: 2C1-018   Name: LITTLE JOHN JR LAKE              State: WI  Date: 30OCT84
Sample Type: REGULAR           Latitude: 46-00'15"N    Longitude: 89-38'20"W
Elevation:  498   Surface Temp:  8.0  Stratified: MIXED      Site Depth:   8.8
Lake Area:       9 Watershed Area:      34 WA/LA:      3.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.6  Turbidity:   0.4     Color:   10
Closed pH: 5.31        Equil. pH: 5.27              ANC:    5.0       DOC:  1.90
Closed DIC:  0.32   Equil. DIC:  0.23    Meas. Cond:  13.6   Cal. Cond:  13.9
Ca:   40.9         Mg:    23.0       Na:     6.5       K:  10.7      NH4:  0.0
SO4:   76.0       HCO3:     2.5      Cl:    11.3      NO3:    0.0        F:  0.6
Sum Cations:   87.1  Sum Anions:    90.4  Cations/Anions: 0.96   Tot. P:  12.0
Tot. Al:   26.0    Ext. Al:   6.0     Fe:     0.0     Mn:    20.0    SiO2:  0.02

ID: 2C1-019   Name: FIREFLY LAKE                     State: WI  Date: 30OCT84
Sample Type: REGULAR           Latitude: 45-59'57"N    Longitude: 89-38'00"W
Elevation:  501   Surface Temp:  9.7  Stratified: MIXED      Site Depth:  12.8
Lake Area:      13 Watershed Area:      60 WA/LA:      4.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  6.9  Turbidity:   0.3     Color:   10
Closed pH: 5.97        Equil. pH: 6.27              ANC:    0.5       DOC:  2.10
Closed DIC:  0.52   Equil. DIC:  0.31    Meas. Cond:  12.4   Cal. Cond:  13.6
Ca:   52.4         Mg:    20.6       Na:     7.8       K:   8.7      NH4:  0.6
SO4:   82.4       HCO3:    15.5      Cl:     8.5      NO3:    0.5        F:  0.6
Sum Cations:   90.9  Sum Anions:   107.5  Cations/Anions: 0.85   Tot. P:  12.0
Tot. Al:   14.0    Ext. Al:   1.0     Fe:     0.0     Mn:     0.0    SiO2:  0.00

ID: 2C1-020   Name: TOWANDA LAKE                     State: WI  Date: 01NOV84
Sample Type: REGULAR           Latitude: 45-56'30"N    Longitude: 89-42'30"W
Elevation:  493   Surface Temp:  6.0  Stratified: MIXED      Site Depth:   7.0
Lake Area:      57 Watershed Area:     300 WA/LA:      5.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.3  Turbidity:   1.0     Color:   15
Closed pH: 7.15        Equil. pH: 7.72              ANC:  168.0       DOC:  4.10
Closed DIC:  2.26   Equil. DIC:  2.06    Meas. Cond:  29.1   Cal. Cond:  27.7
Ca:  131.7         Mg:   102.0       Na:    33.1       K:  10.0      NH4:  2.8
SO4:   33.3       HCO3:   146.4      Cl:    33.0      NO3:    0.8        F:  1.7
Sum Cations:  279.7  Sum Anions:   215.4  Cations/Anions: 1.30   Tot. P:  13.0
Tot. Al:   14.0    Ext. Al:   1.0     Fe:    20.0     Mn:     0.0    SiO2:  0.39
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C1-021   Name: SUNDAY LAKE                      State: WI  Date: 01NOV84
Sample Type: REGULAR          Latitude: 45-53'25"N   Longitude: 89-51'20"W
Elevation:  484   Surface Temp:  7.4  Stratified: MIXED     Site Depth:  12.5
Lake Area:     36 Watershed Area:     117 WA/LA:     3.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.2  Turbidity:   0.6     Color:    15
Closed pH: 6.67      Equil. pH: 7.15              ANC:   86.0       DOC:  3.70
Closed DIC:  1.44  Equil. DIC:  1.03   Meas. Cond:  22.4   Cal. Cond:  21.7
Ca:   90.3         Mg:    55.9        Na:    30.4       K:  12.0      NH4:  2.2
SO4:   52.3      HCO3:    71.7       Cl:    42.3     NO3:   0.8        F:  1.0
Sum Cations:  191.2  Sum Anions:   168.1  Cations/Anions: 1.14   Tot. P:  14.0
Tot. Al:   10.0    Ext. Al:   0.0    Fe:    20.0     Mn:     0.0    SiO2:  0.00

ID: 2C1-024   Name: EAGLE LAKE                       State: WI  Date: 06NOV84
Sample Type: REGULAR          Latitude: 46-01'55"N   Longitude: 89-49'35"W
Elevation:  493   Surface Temp:  2.5  Stratified: MIXED     Site Depth:   4.3
Lake Area:      7 Watershed Area:      36 WA/LA:     5.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.8  Turbidity:   0.5     Color:    15
Closed pH: 5.56      Equil. pH: 5.78              ANC:    7.2       DOC:  3.30
Closed DIC:  0.37  Equil. DIC:  0.55   Meas. Cond:   9.1   Cal. Cond:  11.1
Ca:   35.4         Mg:    19.7        Na:     4.3       K:  14.1      NH4:  2.2
SO4:   56.8      HCO3:    11.6       Cl:     5.1     NO3:   0.4        F:  0.6
Sum Cations:   78.7  Sum Anions:    74.5  Cations/Anions: 1.06   Tot. P:  26.0
Tot. Al:   22.0    Ext. Al:  11.0    Fe:    20.0     Mn:    30.0    SiO2:  0.11

ID: 2C1-025   Name: WISHOW LAKE                      State: WI  Date: 01NOV84
Sample Type: REGULAR          Latitude: 45-57'20"N   Longitude: 89-47'30"W
Elevation:  489   Surface Temp:  5.5  Stratified: MIXED     Site Depth:   5.8
Lake Area:     33 Watershed Area:     207 WA/LA:     6.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.3  Turbidity:   0.4     Color:    20
Closed pH: 5.78      Equil. pH: 6.04              ANC:   -0.1       DOC:  3.40
Closed DIC:  0.53  Equil. DIC:  0.23   Meas. Cond:  11.5   Cal. Cond:  10.8
Ca:   40.4         Mg:    22.2        Na:     5.7       K:   9.7      NH4:  5.5
SO4:   49.8      HCO3:     6.4       Cl:     5.1     NO3:   3.7        F:  3.7
Sum Cations:   85.6  Sum Anions:    68.7  Cations/Anions: 1.25   Tot. P:   9.0
Tot. Al:   22.0    Ext. Al:   7.0    Fe:    30.0     Mn:    20.0    SiO2:  0.21

ID: 2C1-026   Name: CHICKAREE LAKE                   State: WI  Date: 30OCT84
Sample Type: REGULAR          Latitude: 45-54'25"N   Longitude: 89-21'30"W
Elevation:  491   Surface Temp:  6.4  Stratified: MIXED     Site Depth:   2.4
Lake Area:     11 Watershed Area:      57 WA/LA:     5.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.8  Turbidity:   0.8     Color:    55
Closed pH: 5.43      Equil. pH: 5.52              ANC:    7.0       DOC:  6.90
Closed DIC:  0.35  Equil. DIC:  0.24   Meas. Cond:  13.4   Cal. Cond:  12.4
Ca:   37.4         Mg:    26.3        Na:    23.5       K:   8.7      NH4:  0.6
SO4:   55.6      HCO3:     3.3       Cl:     7.6     NO3:   0.0        F:  1.2
Sum Cations:  101.2  Sum Anions:    67.7  Cations/Anions: 1.50   Tot. P:  21.0
Tot. Al:   95.0    Ext. Al:  29.0    Fe:   160.0     Mn:    30.0    SiO2:  1.60

ID: 2C1-027   Name: LITTLE BASS LAKE                 State: WI  Date: 01NOV84
Sample Type: REGULAR          Latitude: 45-51'45"N   Longitude: 89-36'40"W
Elevation:  486   Surface Temp:  8.3  Stratified: MIXED     Site Depth:  19.2
Lake Area:     17 Watershed Area:      67 WA/LA:     3.8 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  5.3  Turbidity:   0.3     Color:    15
Closed pH: 6.22      Equil. pH: 6.82              ANC:   32.0       DOC:  4.20
Closed DIC:  1.07  Equil. DIC:  0.43   Meas. Cond:  13.0   Cal. Cond:  12.5
Ca:   50.4         Mg:    26.3        Na:    12.2       K:  12.3      NH4:  2.8
SO4:   52.3      HCO3:    33.7       Cl:     5.4     NO3:   0.8        F:  0.7
Sum Cations:  104.5  Sum Anions:    92.8  Cations/Anions: 1.13   Tot. P:   8.0
Tot. Al:  234.0    Ext. Al:   1.0    Fe:    20.0     Mn:    10.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C1-028   Name: ALICE LAKE                        State: WI  Date: 01NOV84
Sample Type: REGULAR             Latitude: 45-48'10"N    Longitude: 89-44'00"W
Elevation:  480   Surface Temp:  6.6  Stratified: MIXED      Site Depth:   5.8
Lake Area:       7 Watershed Area:      26 WA/LA:       3.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.1   Turbidity:   0.7       Color:   35
Closed pH: 6.28       Equil. pH: 6.38              ANC:   40.5         DOC:  4.40
Closed DIC:  0.94   Equil. DIC:  0.48    Meas. Cond:  25.3   Cal. Cond:  24.1
Ca:   56.9          Mg:    36.2       Na:    90.3         K:  19.2       NH4:   2.8
SO4:   42.1       HCO3:    32.4       Cl:    98.3       NO3:    1.1          F:   1.2
Sum Cations:  205.8  Sum Anions:  175.1  Cations/Anions: 1.18   Tot. P:  20.5
Tot. Al:    23.5    Ext. Al:    1.0     Fe:   265.0     Mn:    40.0    SiO2:  0.19

ID: 2C1-029   Name: MCGRATH LAKE                      State: WI  Date: 01NOV84
Sample Type: REG/SPC/LTM/        Latitude: 45-47'30"N    Longitude: 89-38'40"W
Elevation:  484   Surface Temp:  5.6  Stratified: MIXED      Site Depth:   6.7
Lake Area:      21 Watershed Area:     104 WA/LA:       5.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.6   Turbidity:   0.4       Color:   15
Closed pH: 5.45       Equil. pH: 5.57              ANC:    1.0         DOC:  3.30
Closed DIC:  0.29   Equil. DIC:  0.23    Meas. Cond:  15.6   Cal. Cond:  14.5
Ca:   47.4          Mg:    30.4       Na:    12.2         K:  11.8       NH4:   0.0
SO4:   84.1       HCO3:     2.9       Cl:     3.5       NO3:    0.4          F:   0.9
Sum Cations:  105.8  Sum Anions:   91.9  Cations/Anions: 1.15   Tot. P:  15.0
Tot. Al:    29.0    Ext. Al:    9.0     Fe:    20.0     Mn:    20.0    SiO2:  0.00

ID: 2C1-030   Name: GARTH LAKE                        State: WI  Date: 01NOV84
Sample Type: REGULAR             Latitude: 45-45'45"N    Longitude: 89-45'00"W
Elevation:  478   Surface Temp:  6.4  Stratified: MIXED      Site Depth:   4.9
Lake Area:      47 Watershed Area:     140 WA/LA:       3.0 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  3.2   Turbidity:   1.0       Color:   15
Closed pH: 7.84       Equil. pH: 8.38              ANC:  806.0         DOC:  3.80
Closed DIC:  9.08   Equil. DIC:  8.67    Meas. Cond:  83.6   Cal. Cond:  86.2
Ca:  492.5          Mg:   271.5       Na:    83.1         K:  12.8       NH4:   0.6
SO4:   44.3       HCO3:   698.7       Cl:    29.3       NO3:    1.2          F:   3.5
Sum Cations:  860.4  Sum Anions:  780.7  Cations/Anions: 1.10   Tot. P:  10.0
Tot. Al:     1.0    Ext. Al:    2.0     Fe:    50.0     Mn:     0.0    SiO2: 11.00

ID: 2C1-031   Name: MUSKIE LAKE                       State: WI  Date: 27OCT84
Sample Type: REGULAR             Latitude: 45-44'00"N    Longitude: 89-38'15"W
Elevation:  480   Surface Temp:  9.2  Stratified: MIXED      Site Depth:  11.3
Lake Area:      19 Watershed Area:      67 WA/LA:       3.6 Hydro Type: DRAINAGE
Residence Time:  3.38  Secchi Depth:  2.8   Turbidity:   1.0       Color:   20
Closed pH: 7.49       Equil. pH: 8.37              ANC:  971.0         DOC:  3.60
Closed DIC: 12.08   Equil. DIC: 11.25    Meas. Cond:  96.2   Cal. Cond: 103.6
Ca:  622.3          Mg:   288.7       Na:    83.5         K:  17.6       NH4:   2.2
SO4:   27.3       HCO3:   931.8       Cl:    19.5       NO3:    0.4          F:   3.8
Sum Cations: 1014.4  Sum Anions:  986.9  Cations/Anions: 1.03   Tot. P:   9.0
Tot. Al:    12.0    Ext. Al:    1.0     Fe:    70.0     Mn:     0.0    SiO2:  3.24

ID: 2C1-032   Name: ALVA LAKE                         State: WI  Date: 27OCT84
Sample Type: REGULAR             Latitude: 45-42'30"N    Longitude: 89-35'35"W
Elevation:  484   Surface Temp: 10.1  Stratified: MIXED      Site Depth:  10.1
Lake Area:      81 Watershed Area:     378 WA/LA:       4.7 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  4.2   Turbidity:   0.5       Color:   10
Closed pH: 7.34       Equil. pH: 7.28              ANC:  351.2         DOC:  3.60
Closed DIC:  4.46   Equil. DIC:  4.17    Meas. Cond:  42.5   Cal. Cond:  44.1
Ca:  215.1          Mg:   144.8       Na:    55.7         K:  13.8       NH4:   3.3
SO4:   44.1       HCO3:   339.3       Cl:    10.3       NO3:    0.0          F:   2.3
Sum Cations:  432.7  Sum Anions:  396.6  Cations/Anions: 1.09   Tot. P:   9.0
Tot. Al:    13.0    Ext. Al:    1.0     Fe:    10.0     Mn:     0.0    SiO2:  0.17
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C1-033   Name: BOBS LAKE                        State: WI  Date: 29OCT84
Sample Type: REGULAR           Latitude: 45-41'48"N   Longitude: 89-32'05"W
Elevation:  486   Surface Temp:  7.6  Stratified: MIXED      Site Depth:  10.7
Lake Area:      8 Watershed Area:     67 WA/LA:     8.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.9   Turbidity:   0.8      Color:   40
Closed pH: 5.70       Equil. pH: 6.41                ANC:   20.0        DOC:  6.10
Closed DIC:  1.19   Equil. DIC:  0.26    Meas. Cond:  15.9   Cal. Cond:  15.0
Ca:   57.4          Mg:    38.7       Na:    11.7       K:  19.9       NH4:   2.8
SO4:    66.0       HCO3:   16.5       Cl:     8.2      NO3:   0.1          F:   0.9
Sum Cations:  132.2  Sum Anions:    91.7  Cations/Anions: 1.44   Tot. P:  12.0
Tot. Al:    44.0    Ext. Al:  23.0    Fe:    90.0     Mn:    40.0    SiO2:  0.89
```

```
ID: 2C1-034   Name: WILDWOOD LAKE                    State: WI  Date: 29OCT84
Sample Type: REGULAR           Latitude: 45-41'00"N   Longitude: 89-27'50"W
Elevation:  480   Surface Temp:  7.4  Stratified: MIXED      Site Depth:   3.7
Lake Area:     11 Watershed Area:     39 WA/LA:     3.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.4   Turbidity:   0.9      Color:   15
Closed pH: 5.95       Equil. pH: 6.14                ANC:    8.0        DOC:  3.30
Closed DIC:  0.30   Equil. DIC:  0.25    Meas. Cond:  67.1   Cal. Cond:  70.4
Ca:  121.8          Mg:    92.1       Na:   328.4       K:  17.9       NH4:   1.7
SO4:    55.4       HCO3:    7.2       Cl:   458.1      NO3:   0.0          F:   1.2
Sum Cations:  563.7  Sum Anions:   521.9  Cations/Anions: 1.08   Tot. P:  18.0
Tot. Al:    14.0    Ext. Al:   3.0    Fe:    10.0     Mn:    30.0    SiO2:  0.13
```

```
ID: 2C1-035   Name: PRUNE LAKE                       State: WI  Date: 08OCT84
Sample Type: REGULAR           Latitude: 45-37'20"N   Longitude: 89-30'20"W
Elevation:  483   Surface Temp: 13.1  Stratified: MIXED      Site Depth:   4.0
Lake Area:     12 Watershed Area:     49 WA/LA:     4.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.3   Turbidity:   0.9      Color:   20
Closed pH: 6.79       Equil. pH: 7.17                ANC:   63.0        DOC:  7.20
Closed DIC:  1.02   Equil. DIC:  0.70    Meas. Cond:  19.7   Cal. Cond:  18.4
Ca:   61.9          Mg:    44.4       Na:    35.7       K:  24.0       NH4:   0.6
SO4:    47.1       HCO3:   53.4       Cl:    30.7      NO3:   1.5          F:   1.7
Sum Cations:  166.8  Sum Anions:   134.4  Cations/Anions: 1.24   Tot. P:  15.0
Tot. Al:    14.0    Ext. Al:   1.0    Fe:    20.0     Mn:     0.0    SiO2:  0.11
```

```
ID: 2C1-037   Name: SQUASH LAKE                      State: WI  Date: 08OCT84
Sample Type: REG/SPC/NRC/      Latitude: 45-36'00"N   Longitude: 89-33'00"W
Elevation:  478   Surface Temp: 13.8  Stratified: STRONG     Site Depth:  22.3
Lake Area:    162 Watershed Area:    440 WA/LA:     2.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.6   Turbidity:   0.6      Color:   10
Closed pH: 7.60       Equil. pH: 7.82                ANC:  373.0        DOC:  3.40
Closed DIC:  4.92   Equil. DIC:  4.27    Meas. Cond:  53.9   Cal. Cond:  55.3
Ca:  259.5          Mg:   155.5       Na:    78.3       K:  17.4       NH4:   0.6
SO4:    55.6       HCO3:  356.6       Cl:    66.0      NO3:  12.7          F:   0.8
Sum Cations:  511.2  Sum Anions:   492.8  Cations/Anions: 1.04   Tot. P:   3.0
Tot. Al:     3.0    Ext. Al:   0.0    Fe:     0.0     Mn:     0.0    SiO2:  3.22
```

```
ID: 2C1-038   Name: BUCK LAKE                        State: WI  Date: 08NOV84
Sample Type: REGULAR           Latitude: 45-35'30"N   Longitude: 89-25'00"W
Elevation:  477   Surface Temp:  5.1  Stratified: MIXED      Site Depth:   9.4
Lake Area:     25 Watershed Area:    101 WA/LA:     4.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  6.2   Turbidity:   0.2      Color:   15
Closed pH: 5.85       Equil. pH: 6.24                ANC:    9.3        DOC:  2.40
Closed DIC:  0.44   Equil. DIC:  0.31    Meas. Cond:  18.3   Cal. Cond:  18.9
Ca:   63.4          Mg:    34.5       Na:    17.8       K:  18.4       NH4:   1.1
SO4:   100.8       HCO3:   11.0       Cl:    24.8      NO3:   1.0          F:   1.1
Sum Cations:  136.3  Sum Anions:   138.6  Cations/Anions: 0.98   Tot. P:   7.0
Tot. Al:    17.0    Ext. Al:   4.0    Fe:    20.0     Mn:     0.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C1-039   Name: (NO NAME)                       State: WI  Date: 29OCT84
Sample Type: REGULAR           Latitude: 45-29'20"N    Longitude: 89-25'30"W
Elevation:  512   Surface Temp:  6.8  Stratified: MIXED     Site Depth:   3.0
Lake Area:       5 Watershed Area:      31 WA/LA:      5.8 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.3   Turbidity:   1.2      Color:   40
Closed pH: 5.85        Equil. pH: 6.40              ANC:   19.7         DOC:  6.40
Closed DIC:  0.64   Equil. DIC:  0.39    Meas. Cond:  11.5   Cal. Cond:  11.0
Ca:   38.9          Mg:   27.1        Na:     8.3         K:  18.7       NH4:  1.7
SO4:   46.2       HCO3:     9.3       Cl:     5.6       NO3:    0.3         F:  0.9
Sum Cations:   96.7  Sum Anions:    62.4  Cations/Anions: 1.55   Tot. P:  25.0
Tot. Al:    45.0    Ext. Al:  18.0     Fe:    50.0      Mn:    20.0    SiO2:  0.75

ID: 2C1-040   Name: LAKE DORIS                      State: WI  Date: 29OCT84
Sample Type: REGULAR           Latitude: 45-26'25"N    Longitude: 89-29'10"W
Elevation:  524   Surface Temp:  7.5  Stratified: MIXED     Site Depth:   6.1
Lake Area:       6 Watershed Area:      23 WA/LA:      4.0 Hydro Type: DRAINAGE
Residence Time:  1.71  Secchi Depth:  1.8   Turbidity:   1.1      Color:   55
Closed pH: 6.07        Equil. pH: 7.14              ANC:   83.0         DOC:  6.80
Closed DIC:  2.65   Equil. DIC:  0.83    Meas. Cond:  19.2   Cal. Cond:  18.7
Ca:   83.8          Mg:   46.1        Na:    14.8         K:  20.5       NH4:  9.4
SO4:   51.6       HCO3:    72.6       Cl:     8.7       NO3:    0.6         F:  0.9
Sum Cations:  175.1  Sum Anions:   134.5  Cations/Anions: 1.30   Tot. P:  27.0
Tot. Al:    46.0    Ext. Al:  18.0     Fe:   300.0      Mn:    70.0    SiO2:  1.70

ID: 2C1-042   Name: HIGH LAKE                       State: WI  Date: 29OCT84
Sample Type: REGULAR           Latitude: 45-25'30"N    Longitude: 89-32'00"W
Elevation:  515   Surface Temp:  7.8  Stratified: MIXED     Site Depth:   6.7
Lake Area:       4 Watershed Area:      26 WA/LA:      6.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.3   Turbidity:   0.6      Color:   30
Closed pH: 5.75        Equil. pH: 6.50              ANC:   32.8         DOC:  5.40
Closed DIC:  1.34   Equil. DIC:  0.38    Meas. Cond:  15.5   Cal. Cond:  15.4
Ca:   55.9          Mg:   33.7        Na:     8.7         K:  22.0       NH4:  5.5
SO4:   70.8       HCO3:    23.1       Cl:     7.6       NO3:    0.6         F:  0.9
Sum Cations:  127.2  Sum Anions:   103.1  Cations/Anions: 1.23   Tot. P:  15.0
Tot. Al:    33.0    Ext. Al:  14.0     Fe:   120.0      Mn:    30.0    SiO2:  1.08

ID: 2C1-043   Name: SEVEN ISLAND LAKE               State: WI  Date: 29OCT84
Sample Type: REGULAR           Latitude: 45-25'30"N    Longitude: 89-28'00"W
Elevation:  525   Surface Temp:  8.0  Stratified: MIXED     Site Depth:   5.2
Lake Area:      55 Watershed Area:     148 WA/LA:      2.7 Hydro Type: DRAINAGE
Residence Time:  1.84  Secchi Depth:  2.4   Turbidity:   1.8      Color:   20
Closed pH: 7.01        Equil. pH: 7.56              ANC:  262.0         DOC:  4.90
Closed DIC:  3.59   Equil. DIC:  2.90    Meas. Cond:  36.9   Cal. Cond:  37.8
Ca:  174.2          Mg:  115.2        Na:    37.0         K:  17.4       NH4: 20.5
SO4:   60.4       HCO3:   223.3       Cl:    21.7       NO3:    1.9         F:  0.9
Sum Cations:  364.3  Sum Anions:   308.5  Cations/Anions: 1.18   Tot. P:  17.0
Tot. Al:    10.0    Ext. Al:   1.0     Fe:    30.0      Mn:     0.0    SiO2:  0.75

ID: 2C1-044   Name: (NO NAME)                       State: WI  Date: 08NOV84
Sample Type: REGULAR           Latitude: 45-25'15"N    Longitude: 89-22'10"W
Elevation:  506   Surface Temp:  3.7  Stratified: MIXED     Site Depth:   3.4
Lake Area:       4 Watershed Area:      31 WA/LA:      7.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.0   Turbidity:   1.4      Color:   75
Closed pH: 5.15        Equil. pH: 5.27              ANC:   12.0         DOC:  9.10
Closed DIC:  0.76   Equil. DIC:  0.17    Meas. Cond:  17.7   Cal. Cond:  16.6
Ca:   58.9          Mg:   33.7        Na:    12.6         K:  12.5       NH4:  2.2
SO4:   77.9       HCO3:     3.2       Cl:     9.6       NO3:    1.0         F:  1.3
Sum Cations:  126.6  Sum Anions:    92.9  Cations/Anions: 1.36   Tot. P:  22.0
Tot. Al:   108.0    Ext. Al:  49.0     Fe:   210.0      Mn:    50.0    SiO2:  2.79
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C1-045   Name: BIRCH LAKE                        State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 45-21'35"N    Longitude: 89-13'20"W
Elevation:  511   Surface Temp:  3.0  Stratified: MIXED      Site Depth:   3.9
Lake Area:       6 Watershed Area:     41 WA/LA:     7.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.9  Turbidity:  1.0     Color:   35
Closed pH: 7.02       Equil. pH: 7.39             ANC:  192.2         DOC:  6.70
Closed DIC:  2.40   Equil. DIC:  2.58    Meas. Cond:  24.1   Cal. Cond:  26.6
Ca:  121.8          Mg:  102.0       Na:    20.9        K:  17.6       NH4:  7.2
SO4:   42.7       HCO3:  159.3       Cl:     6.5      NO3:   0.0         F:  1.2
Sum Cations:  269.5  Sum Anions:  209.9  Cations/Anions: 1.28   Tot. P:  14.0
Tot. Al:    11.0    Ext. Al:    4.0    Fe:     0.0     Mn:    10.0    SiO2:  0.34


ID: 2C1-046   Name: PARTRIDGE LAKE                    State: WI  Date: 08NOV84
Sample Type: REGULAR           Latitude: 45-20'45"N    Longitude: 89-16'30"W
Elevation:  512   Surface Temp:  4.6  Stratified: MIXED      Site Depth:   8.8
Lake Area:      15 Watershed Area:    119 WA/LA:     8.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.3  Turbidity:  0.4     Color:   30
Closed pH: 6.30       Equil. pH: 7.13             ANC:   68.9         DOC:  4.60
Closed DIC:  1.62   Equil. DIC:  0.85    Meas. Cond:  17.5   Cal. Cond:  17.7
Ca:   59.4          Mg:   54.3       Na:    11.3        K:  23.5       NH4:  6.1
SO4:   58.7       HCO3:   63.3       Cl:     9.6      NO3:   1.3         F:  1.5
Sum Cations:  154.9  Sum Anions:  134.4  Cations/Anions: 1.15   Tot. P:  22.0
Tot. Al:    24.0    Ext. Al:    6.0    Fe:   120.0     Mn:    30.0    SiO2:  0.22


ID: 2C1-047   Name: SNAG LAKE                         State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 45-19'20"N    Longitude: 89-13'10"W
Elevation:  504   Surface Temp:  3.8  Stratified: MIXED      Site Depth:   6.7
Lake Area:       9 Watershed Area:     67 WA/LA:     7.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.1  Turbidity:  0.5     Color:   45
Closed pH: 6.56       Equil. pH: 7.29             ANC:  140.5         DOC:  6.60
Closed DIC:  2.39   Equil. DIC:  1.95    Meas. Cond:  22.4   Cal. Cond:  25.0
Ca:  106.8          Mg:   92.1       Na:    20.9        K:  16.6       NH4:  8.0
SO4:   55.4       HCO3:  121.7       Cl:    11.6      NO3:   1.5         F:  1.0
Sum Cations:  244.6  Sum Anions:  191.2  Cations/Anions: 1.28   Tot. P:  11.0
Tot. Al:    33.0    Ext. Al:    9.0    Fe:   260.0     Mn:    10.0    SiO2:  1.12


ID: 2C1-049   Name: BORTH LAKE                        State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 45-17'00"N    Longitude: 89-10'07"W
Elevation:  489   Surface Temp:  3.4  Stratified: MIXED      Site Depth:   3.7
Lake Area:      12 Watershed Area:     70 WA/LA:     6.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.1  Turbidity:  0.3     Color:   25
Closed pH: 6.51       Equil. pH: 7.06             ANC:   78.5         DOC:  5.50
Closed DIC:  1.34   Equil. DIC:  1.23    Meas. Cond:  18.4   Cal. Cond:  19.8
Ca:   68.9          Mg:   51.8       Na:    35.2        K:  20.5       NH4:  5.7
SO4:   38.1       HCO3:   67.9       Cl:    39.2      NO3:   1.7         F:  0.8
Sum Cations:  182.3  Sum Anions:  147.7  Cations/Anions: 1.23   Tot. P:  16.0
Tot. Al:    11.0    Ext. Al:   20.0    Fe:    20.0     Mn:     0.0    SiO2:  0.06


ID: 2C1-050   Name: VENTOR LAKE                       State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 45-18'40"N    Longitude: 89-02'55"W
Elevation:  492   Surface Temp:  3.0  Stratified: MIXED      Site Depth:   4.6
Lake Area:       5 Watershed Area:     52 WA/LA:     9.8 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.9  Turbidity:  0.6     Color:   25
Closed pH: 4.75       Equil. pH: 4.75             ANC:   12.1         DOC:  7.60
Closed DIC:  0.58   Equil. DIC:  0.09    Meas. Cond:  21.3   Cal. Cond:  19.9
Ca:   64.9          Mg:   39.5       Na:    11.3        K:  15.3       NH4:  1.3
SO4:   62.5       HCO3:    1.4       Cl:     8.7      NO3:   0.0         F:  1.1
Sum Cations:  150.5  Sum Anions:   73.7  Cations/Anions: 2.04   Tot. P:   3.0
Tot. Al:   125.0    Ext. Al:   75.0    Fe:   360.0     Mn:    80.0    SiO2:  1.05
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C1-051   Name: NEWBOLD LAKE                        State: WI  Date: 29OCT84
Sample Type: REGULAR            Latitude: 45-42'23"N    Longitude: 89-33'12"W
Elevation:  489   Surface Temp:  7.7  Stratified: MIXED       Site Depth:   7.6
Lake Area:       6 Watershed Area:    119 WA/LA:    19.8 Hydro Type: DRAINAGE
Residence Time:  0.62  Secchi Depth:  2.9   Turbidity:   0.8       Color:   25
Closed pH: 6.30        Equil. pH: 6.85              ANC:   35.0         DOC:  5.90
Closed DIC:  0.86   Equil. DIC:  0.55    Meas. Cond:  16.3   Cal. Cond:  15.5
Ca:   62.9          Mg:   38.7       Na:    13.5          K:  13.0       NH4: 10.5
SO4:   60.4      HCO3:   33.3      Cl:    9.6        NO3:   0.8          F:  1.2
Sum Cations:  139.1  Sum Anions:  105.2  Cations/Anions: 1.32   Tot. P:  13.0
Tot. Al:   25.0    Ext. Al:   6.0    Fe:    80.0     Mn:   20.0    SiO2:  0.41

ID: 2C1-053   Name: PLYMOUTH LAKE                       State: WI  Date: 10OCT84
Sample Type: REGULAR            Latitude: 46-02'26"N    Longitude: 88-59'21"W
Elevation:  538   Surface Temp: 12.8  Stratified: MIXED       Site Depth:   7.6
Lake Area:       5 Watershed Area:     83 WA/LA:    16.6 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  5.2   Turbidity:   0.3       Color:   10
Closed pH: 5.00        Equil. pH: 5.04              ANC:   -8.2         DOC:  1.90
Closed DIC:  0.53   Equil. DIC:  0.15    Meas. Cond:  11.6   Cal. Cond:  13.4
Ca:   17.5          Mg:   18.9       Na:     4.8          K:  10.7       NH4:  1.1
SO4:   67.9      HCO3:    1.2      Cl:   13.5        NO3:   0.0          F:  0.7
Sum Cations:   63.5  Sum Anions:   83.3  Cations/Anions: 0.76   Tot. P:   6.0
Tot. Al:   10.0    Ext. Al:   6.0    Fe:    10.0     Mn:   40.0    SiO2:  0.20

ID: 2C1-054   Name: PERCH LAKE                          State: WI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 46-08'46"N    Longitude: 89-15'00"W
Elevation:  515   Surface Temp:  2.1  Stratified: MIXED       Site Depth:   3.0
Lake Area:       6 Watershed Area:     85 WA/LA:    13.9 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  2.4   Turbidity:   1.4       Color:   10
Closed pH: 5.21        Equil. pH: 5.24              ANC:    6.0         DOC:  2.90
Closed DIC:  0.23   Equil. DIC:  0.18    Meas. Cond:  11.8   Cal. Cond:  11.7
Ca:   30.9          Mg:   23.0       Na:     4.8          K:   7.7       NH4:  2.2
SO4:   57.9      HCO3:    1.4      Cl:    6.2        NO3:   2.2          F:  0.5
Sum Cations:   75.4  Sum Anions:   68.3  Cations/Anions: 1.10   Tot. P:  15.0
Tot. Al:   49.0    Ext. Al:  15.0    Fe:    30.0     Mn:   40.0    SiO2:  0.00

ID: 2C1-055   Name: GROSS LAKE                          State: WI  Date: 08NOV84
Sample Type: REGULAR            Latitude: 45-34'43"N    Longitude: 89-26'05"W
Elevation:  478   Surface Temp:  3.4  Stratified: MIXED       Site Depth:   6.1
Lake Area:      12 Watershed Area:    114 WA/LA:     9.9 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  2.9   Turbidity:   0.6       Color:   20
Closed pH: 6.02        Equil. pH: 6.46              ANC:   23.0         DOC:  5.60
Closed DIC:  0.47   Equil. DIC:  0.33    Meas. Cond:  16.8   Cal. Cond:  16.1
Ca:   56.9          Mg:   38.7       Na:    16.5          K:  21.2       NH4:  1.1
SO4:   75.8      HCO3:   13.0      Cl:   13.8        NO3:   1.8          F:  1.1
Sum Cations:  135.4  Sum Anions:  105.5  Cations/Anions: 1.28   Tot. P:  13.0
Tot. Al:   30.0    Ext. Al:   6.0    Fe:    70.0     Mn:   20.0    SiO2:  0.23

ID: 2C1-056   Name: RUDOLPH LAKE                        State: WI  Date: 09OCT84
Sample Type: REGULAR            Latitude: 46-12'30"N    Longitude: 89-39'33"W
Elevation:  516   Surface Temp: 12.4  Stratified: MIXED       Site Depth:   7.3
Lake Area:      34 Watershed Area:    453 WA/LA:    13.4 Hydro Type: DRAINAGE
Residence Time:  0.84  Secchi Depth:  2.5   Turbidity:   0.6       Color:   30
Closed pH: 6.28        Equil. pH: 6.95              ANC:   48.0         DOC:  5.90
Closed DIC:  0.84   Equil. DIC:  0.40    Meas. Cond:  22.6   Cal. Cond:  25.3
Ca:   83.3          Mg:   56.8       Na:    36.1          K:  12.5       NH4:  0.6
SO4:  100.4      HCO3:   28.4      Cl:   66.0        NO3:   0.1          F:  1.1
Sum Cations:  189.8  Sum Anions:  195.9  Cations/Anions: 0.97   Tot. P:   7.0
Tot. Al:   47.0    Ext. Al:  19.0    Fe:    50.0     Mn:    0.0    SiO2:  0.42
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C1-057   Name: CASTLE LAKE                           State: MI  Date: 03NOV84
Sample Type: REGULAR             Latitude: 46-18'56"N   Longitude: 89-04'27"W
Elevation:  483   Surface Temp:  5.2  Stratified: MIXED      Site Depth:  18.9
Lake Area:      13 Watershed Area:     332 WA/LA:     25.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.3   Turbidity:   0.7     Color:   85
Closed pH: 5.90       Equil. pH: 6.80             ANC:   54.8        DOC:  9.00
Closed DIC:  1.90   Equil. DIC:  0.48     Meas. Cond:  20.8   Cal. Cond:  21.3
Ca:   89.8          Mg:    49.4       Na:    18.7        K:  22.5       NH4:  3.9
SO4:    76.4       HCO3:    39.8       Cl:    26.0      NO3:    3.7        F:  1.1
Sum Cations:  185.1  Sum Anions:   147.0  Cations/Anions: 1.26   Tot. P:  29.0
Tot. Al:  125.0    Ext. Al:  44.0     Fe:  230.0      Mn:    40.0    SiO2:  2.05
```

```
ID: 2C1-058   Name: GAME LAKE                             State: WI  Date: 05NOV84
Sample Type: REGULAR             Latitude: 45-19'12"N   Longitude: 89-05'25"W
Elevation:  501   Surface Temp:  4.4  Stratified: MIXED      Site Depth:   6.7
Lake Area:       9 Watershed Area:     254 WA/LA:     28.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.0   Turbidity:   0.6     Color:  115
Closed pH: 5.14       Equil. pH: 5.24             ANC:   15.3        DOC: 10.80
Closed DIC:  1.30   Equil. DIC:  0.00     Meas. Cond:  12.7   Cal. Cond:  13.0
Ca:   48.4          Mg:    29.6       Na:     6.5        K:  16.4       NH4:  6.2
SO4:    43.5       HCO3:     3.6       Cl:     5.4      NO3:    1.1        F:  0.8
Sum Cations:  114.0  Sum Anions:    54.3  Cations/Anions: 2.10   Tot. P:  17.0
Tot. Al:  104.0    Ext. Al:  55.0     Fe:  280.0      Mn:    70.0    SiO2:  1.04
```

```
ID: 2C1-059   Name: (NO NAME)                             State: WI  Date: 30OCT84
Sample Type: REGULAR             Latitude: 46-01'22"N   Longitude: 89-42'39"W
Elevation:  494   Surface Temp:  7.6  Stratified: MIXED      Site Depth:   5.2
Lake Area:       9 Watershed Area:      57 WA/LA:      6.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  5.2   Turbidity:   0.3     Color:   15
Closed pH: 5.04       Equil. pH: 5.02             ANC:  -10.0        DOC:  2.20
Closed DIC:  0.33   Equil. DIC:  0.17     Meas. Cond:  17.7   Cal. Cond:  19.5
Ca:   42.9          Mg:    31.3       Na:     8.3        K:  12.0       NH4:  0.0
SO4:   120.8       HCO3:     1.4       Cl:     6.2      NO3:    1.9        F:  0.7
Sum Cations:  104.9  Sum Anions:   130.9  Cations/Anions: 0.80   Tot. P:  12.0
Tot. Al:   32.0    Ext. Al:  17.0     Fe:    0.0      Mn:    50.0    SiO2:  0.06
```

```
ID: 2C1-060   Name: MILLER LAKE                           State: WI  Date: 01NOV84
Sample Type: REGULAR             Latitude: 45-49'14"N   Longitude: 89-36'11"W
Elevation:  483   Surface Temp:  7.2  Stratified: MIXED      Site Depth:   8.2
Lake Area:       6 Watershed Area:      36 WA/LA:      5.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  4.1   Turbidity:   0.4     Color:   15
Closed pH: 6.21       Equil. pH: 6.84             ANC:   30.0        DOC:  2.60
Closed DIC:  0.98   Equil. DIC:  0.47     Meas. Cond:  14.9   Cal. Cond:  14.3
Ca:   49.4          Mg:    31.3       Na:    14.8        K:  17.1       NH4:  2.8
SO4:    62.3       HCO3:    27.4       Cl:    12.7      NO3:    1.2        F:  0.8
Sum Cations:  115.9  Sum Anions:   104.4  Cations/Anions: 1.11   Tot. P:  10.0
Tot. Al:   17.0    Ext. Al:   2.0     Fe:   80.0      Mn:    20.0    SiO2:  0.00
```

```
ID: 2C2-001   Name: HEART LAKE                            State: MI  Date: 06NOV84
Sample Type: REGULAR             Latitude: 46-21'20"N   Longitude: 89-44'45"W
Elevation:  475   Surface Temp:  1.4  Stratified: MIXED      Site Depth:   1.5
Lake Area:      68 Watershed Area:     596 WA/LA:      8.7 Hydro Type: DRAINAGE
Residence Time:  0.24  Secchi Depth:  0.7   Turbidity:   1.5     Color:  120
Closed pH: 6.83       Equil. pH: 7.35             ANC:  212.3        DOC: 18.40
Closed DIC:  1.81   Equil. DIC:  1.37     Meas. Cond:  34.6   Cal. Cond:  34.0
Ca:  194.6          Mg:   129.1       Na:    37.0        K:   8.2       NH4:  2.2
SO4:    93.3       HCO3:   101.4       Cl:     9.6      NO3:    1.5        F:  2.6
Sum Cations:  371.2  Sum Anions:   208.5  Cations/Anions: 1.78   Tot. P:   9.0
Tot. Al:   92.0    Ext. Al:  30.0     Fe:  190.0      Mn:    10.0    SiO2:  3.02
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C2-002   Name: HONEYSUCKLE LAKE                 State: MI  Date: 09OCT84
Sample Type: REGULAR            Latitude: 46-16'12"N   Longitude: 89-43'32"W
Elevation:  514   Surface Temp: 12.2  Stratified: STRONG    Site Depth:  16.8
Lake Area:      11 Watershed Area:     54 WA/LA:     5.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.8  Turbidity:   0.9     Color:    35
Closed pH: 6.54        Equil. pH: 7.29             ANC:  106.0        DOC:  6.50
Closed DIC:  1.91   Equil. DIC:  1.11    Meas. Cond:  16.3   Cal. Cond:  14.8
Ca:   80.8          Mg:   48.5       Na:    13.0        K:  15.9       NH4:   0.6
SO4:    14.4       HCO3:   84.5       Cl:     5.9      NO3:   0.0          F:   1.6
Sum Cations:  159.1  Sum Anions:   106.4  Cations/Anions: 1.50   Tot. P:  10.0
Tot. Al:    14.0    Ext. Al:    6.0     Fe:    50.0     Mn:     0.0    SiO2:  0.36

ID: 2C2-003   Name: MINONK LAKE                      State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-15'00"N   Longitude: 89-46'20"W
Elevation:  507   Surface Temp:  2.2  Stratified: MIXED     Site Depth:   4.0
Lake Area:      40 Watershed Area:    544 WA/LA:    13.6 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.6  Turbidity:   1.0     Color:    30
Closed pH: 5.54        Equil. pH: 5.68             ANC:   15.9        DOC:  7.20
Closed DIC:  0.33   Equil. DIC:  0.01    Meas. Cond:  12.4   Cal. Cond:  13.8
Ca:   48.4          Mg:   31.3       Na:    12.2        K:  12.8       NH4:   2.7
SO4:    68.9       HCO3:    5.6       Cl:     7.1      NO3:   0.0          F:   1.1
Sum Cations:  110.7  Sum Anions:    82.6  Cations/Anions: 1.34   Tot. P:   7.0
Tot. Al:    46.0    Ext. Al:   23.0     Fe:    50.0     Mn:    20.0    SiO2:  0.02

ID: 2C2-004   Name: HORSEHEAD LAKE                   State: WI  Date: 09OCT84
Sample Type: REGULAR            Latitude: 46-14'00"N   Longitude: 89-43'00"W
Elevation:  500   Surface Temp: 12.4  Stratified: MIXED     Site Depth:   6.1
Lake Area:     102 Watershed Area:    298 WA/LA:     2.9 Hydro Type: DRAINAGE
Residence Time:  2.06  Secchi Depth:  5.4  Turbidity:   0.6     Color:    15
Closed pH: 7.40        Equil. pH: 8.28             ANC:  707.0        DOC:  4.90
Closed DIC:  8.73   Equil. DIC:  7.63    Meas. Cond:  79.3   Cal. Cond:  80.8
Ca:  484.5          Mg:  240.2       Na:    47.0        K:  18.7       NH4:   2.2
SO4:    63.1       HCO3:  631.0       Cl:    20.9      NO3:   5.6          F:   2.6
Sum Cations:  792.6  Sum Anions:   725.1  Cations/Anions: 1.09   Tot. P:  19.0
Tot. Al:     3.0    Ext. Al:    2.0     Fe:    30.0     Mn:    20.0    SiO2:  6.91

ID: 2C2-005   Name: CARLIN LAKE                      State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-12'00"N   Longitude: 89-46'35"W
Elevation:  499   Surface Temp:  5.2  Stratified: MIXED     Site Depth:   9.1
Lake Area:      62 Watershed Area:    179 WA/LA:     2.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.4  Turbidity:   0.4     Color:    10
Closed pH: 6.60        Equil. pH: 6.99             ANC:   54.3        DOC:  3.40
Closed DIC:  0.84   Equil. DIC:  0.52    Meas. Cond:  12.4   Cal. Cond:  15.5
Ca:   61.9          Mg:   33.7       Na:    18.7        K:  13.0       NH4:   3.8
SO4:    51.4       HCO3:   41.2       Cl:    21.4      NO3:   1.1          F:   1.2
Sum Cations:  131.5  Sum Anions:   116.4  Cations/Anions: 1.13   Tot. P:  16.0
Tot. Al:     5.0    Ext. Al:    2.0     Fe:    30.0     Mn:    10.0    SiO2:  0.10

ID: 2C2-006   Name: NOSEEUM LAKE                     State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-11'20"N   Longitude: 89-49'15"W
Elevation:  498   Surface Temp:  3.8  Stratified: MIXED     Site Depth:   8.5
Lake Area:       8 Watershed Area:     49 WA/LA:     6.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.8  Turbidity:   0.7     Color:    75
Closed pH: 6.22        Equil. pH: 6.73             ANC:   69.7        DOC:  8.90
Closed DIC:  1.22   Equil. DIC:  0.45    Meas. Cond:  20.0   Cal. Cond:  22.0
Ca:  104.3          Mg:   56.8       Na:    20.0        K:   8.7       NH4:   9.9
SO4:    91.4       HCO3:   49.0       Cl:     7.3      NO3:   1.7          F:   1.1
Sum Cations:  200.1  Sum Anions:   150.6  Cations/Anions: 1.33   Tot. P:  27.0
Tot. Al:    85.0    Ext. Al:   36.0     Fe:   160.0     Mn:    20.0    SiO2:  2.07
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C2-007   Name: (NO NAME)                           State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-09'55"N    Longitude: 89-45'35"W
Elevation:  493   Surface Temp:  4.5  Stratified: MIXED      Site Depth:  10.4
Lake Area:        8 Watershed Area:      34 WA/LA:      4.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.2   Turbidity:   0.1      Color:   25
Closed pH: 5.95        Equil. pH: 6.46               ANC:   27.4        DOC:  3.80
Closed DIC:  0.79   Equil. DIC:  0.17     Meas. Cond:   8.9   Cal. Cond:  10.7
Ca:   41.9             Mg:   22.2        Na:     5.4       K:  13.3       NH4:  4.4
SO4:   45.8        HCO3:   21.1        Cl:     6.2      NO3:   1.0          F:  0.8
Sum Cations:    88.0  Sum Anions:    74.9  Cations/Anions: 1.18   Tot. P:  21.0
Tot. Al:    12.0    Ext. Al:    5.0    Fe:    70.0     Mn:    30.0     SiO2:  0.39

ID: 2C2-008   Name: MARION LAKE                         State: MI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 46-15'52"N    Longitude: 89-05'15"W
Elevation:  496   Surface Temp:  4.6  Stratified: MIXED      Site Depth:   9.8
Lake Area:      122 Watershed Area:     619 WA/LA:      5.1 Hydro Type: DRAINAGE
Residence Time:  2.36  Secchi Depth:  4.0   Turbidity:   0.3      Color:   25
Closed pH: 7.11        Equil. pH: 7.43               ANC:  163.0        DOC:  5.50
Closed DIC:  1.95   Equil. DIC:  1.89     Meas. Cond:  30.2   Cal. Cond:  30.1
Ca:  153.2             Mg:   85.5        Na:    25.2       K:  16.1       NH4:  1.7
SO4:   85.6        HCO3:  132.2        Cl:    12.4      NO3:   1.8          F:  1.2
Sum Cations:   281.8  Sum Anions:   233.3  Cations/Anions: 1.21   Tot. P:  19.0
Tot. Al:    24.0    Ext. Al:    6.0    Fe:    50.0     Mn:     0.0     SiO2:  0.37

ID: 2C2-010   Name: HILLTOP LAKE                        State: MI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 46-14'22"N    Longitude: 89-14'00"W
Elevation:  539   Surface Temp:  4.5  Stratified: MIXED      Site Depth:  16.2
Lake Area:        7 Watershed Area:      57 WA/LA:      7.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.9   Turbidity:   0.4      Color:   20
Closed pH: 5.25        Equil. pH: 5.35 .             ANC:   -4.3        DOC:  2.90
Closed DIC:  0.70   Equil. DIC:  0.16     Meas. Cond:  12.8   Cal. Cond:  13.0
Ca:   31.4             Mg:   26.3        Na:     7.4       K:  10.0       NH4:  1.7
SO4:   68.3        HCO3:    3.3        Cl:     9.0      NO3:   0.7          F:  0.6
Sum Cations:    82.8  Sum Anions:    81.9  Cations/Anions: 1.01   Tot. P:  10.0
Tot. Al:    41.0    Ext. Al:   16.0    Fe:    70.0     Mn:    40.0     SiO2:  0.20

ID: 2C2-011   Name: ALLEN LAKE                          State: MI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 46-13'30"N    Longitude: 89-10'25"W
Elevation:  526   Surface Temp:  4.4  Stratified: MIXED      Site Depth:  13.4
Lake Area:       32 Watershed Area:     344 WA/LA:     10.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.7   Turbidity:   0.5      Color:   40
Closed pH: 6.30        Equil. pH: 6.78               ANC:   47.0        DOC:  6.10
Closed DIC:  0.73   Equil. DIC:  0.40     Meas. Cond:  32.2   Cal. Cond:  32.2
Ca:   97.8             Mg:   58.4        Na:   10[illegible]4       K:  14.8       NH4:  1.1
SO4:   86.0        HCO3:   26.0        Cl:   112.[illegible]      NO3:   1.0          F:  0.9
Sum Cations:   277.0  Sum Anions:   226.5  Cations/Anions: 1.22   Tot. P:   9.0
Tot. Al:    87.0    Ext. Al:   21.0    Fe:    50.0     Mn:    10.0     SiO2:  0.57

ID: 2C2-012   Name: OPAL LAKE                           State: MI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 46-15'00"N    Longitude: 89-07'45"W
Elevation:  511   Surface Temp:  4.2  Stratified: MIXED      Site Depth:   7.9
Lake Area:        4 Watershed Area:      31 WA/LA:      7.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.8   Turbidity:   0.5      Color:   40
Closed pH: 5.99        Equil. pH: 6.53               ANC:   35.0        DOC:  4.60
Closed DIC:  1.22   Equil. DIC:  0.38     Meas. Cond:  19.3   Cal. Cond:  19.7
Ca:   73.9             Mg:   48.5        Na:    16.1       K:  13.8       NH4:  3.3
SO4:  106.6        HCO3:   25.0        Cl:     7.9      NO3:   0.9          F:  0.9
Sum Cations:   156.6  Sum Anions:   141.4  Cations/Anions: 1.11   Tot. P:  11.0
Tot. Al:    63.0    Ext. Al:   27.0    Fe:    80.0     Mn:    30.0     SiO2:  0.75
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C2-013   Name: TAYLOR LAKE                        State: MI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 46-14'55"N   Longitude: 89-02'30"W
Elevation:  500   Surface Temp:  5.8  Stratified: MIXED      Site Depth:  12.2
Lake Area:     44 Watershed Area:    875 WA/LA:     19.8 Hydro Type: DRAINAGE
Residence Time:  1.00  Secchi Depth:  1.8   Turbidity:   1.1      Color:   70
Closed pH: 7.26        Equil. pH: 7.91             ANC:  405.0        DOC:  9.40
Closed DIC:  4.40   Equil. DIC:  4.00    Meas. Cond:  48.8   Cal. Cond:  50.8
Ca:  300.9          Mg:  151.4       Na:    34.4       K:  17.4       NH4:  2.2
SO4:   76.4       HCO3:  330.1       Cl:     7.6     NO3:   2.5         F:  1.8
Sum Cations:  506.3  Sum Anions:  419.2  Cations/Anions: 1.21   Tot. P:  13.0
Tot. Al:   45.0    Ext. Al:    9.0    Fe:  160.0     Mn:    10.0    SiO2:  3.71

ID: 2C2-014   Name: BIG DONAHUE LAKE                   State: WI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 46-10'16"N   Longitude: 89-18'47"W
Elevation:  522   Surface Temp:  3.6  Stratified: MIXED      Site Depth:   9.1
Lake Area:     37 Watershed Area:    267 WA/LA:      7.2 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  2.2   Turbidity:   0.8      Color:   25
Closed pH: 5.58        Equil. pH: 5.66             ANC:    8.0        DOC:  3.00
Closed DIC:  0.28   Equil. DIC:  0.25    Meas. Cond:  11.5   Cal. Cond:  11.7
Ca:   36.9          Mg:    25.5      Na:     7.4       K:  10.5       NH4:  0.0
SO4:   63.7       HCO3:     3.9      Cl:     7.6     NO3:   0.0         F:  0.6
Sum Cations:   83.5  Sum Anions:   75.8  Cations/Anions: 1.10   Tot. P:  16.0
Tot. Al:   46.0    Ext. Al:    9.0    Fe:   70.0     Mn:    10.0    SiO2:  0.00

ID: 2C2-015   Name: MARSH LAKE                         State: MI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 46-11'20"N   Longitude: 89-15'00"W
Elevation:  523   Surface Temp:  4.5  Stratified: MIXED      Site Depth:  10.1
Lake Area:     25 Watershed Area:    282 WA/LA:     11.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.4   Turbidity:   0.7      Color:   65
Closed pH: 5.65        Equil. pH: 5.94             ANC:   13.0        DOC:  6.60
Closed DIC:  0.53   Equil. DIC:  0.18    Meas. Cond:  13.0   Cal. Cond:  12.0
Ca:   46.9          Mg:    31.3      Na:     8.3       K:  13.6       NH4:  3.9
SO4:   50.8       HCO3:     5.9      Cl:     6.8     NO3:   3.4         F:  0.7
Sum Cations:  106.0  Sum Anions:   67.5  Cations/Anions: 1.57   Tot. P:  16.0
Tot. Al:  113.0    Ext. Al:   35.0    Fe:  260.0     Mn:    30.0    SiO2:  0.84

ID: 2C2-016   Name: GUDEGAST LAKE                      State: MI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 46-10'08"N   Longitude: 89-09'27"W
Elevation:  518   Surface Temp:  3.3  Stratified: MIXED      Site Depth:   6.1
Lake Area:      5 Watershed Area:     13 WA/LA:      2.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.3   Turbidity:   0.8      Color:   25
Closed pH: 6.11        Equil. pH: 6.89             ANC:   41.0        DOC:  5.00
Closed DIC:  1.11   Equil. DIC:  0.49    Meas. Cond:   7.8   Cal. Cond:   7.3
Ca:   34.9          Mg:    22.2      Na:     6.1       K:   7.4       NH4:  0.0
SO4:   12.5       HCO3:    34.4      Cl:     5.1     NO3:   0.0         F:  0.5
Sum Cations:   71.2  Sum Anions:   52.5  Cations/Anions: 1.36   Tot. P:  14.0
Tot. Al:   21.0    Ext. Al:    3.0    Fe:   40.0     Mn:    10.0    SiO2:  0.03

ID: 2C2-017   Name: DINNER LAKE                        State: MI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 46-12'00"N   Longitude: 89-08'00"W
Elevation:  513   Surface Temp:  3.8  Stratified: MIXED      Site Depth:   4.6
Lake Area:     47 Watershed Area:    132 WA/LA:      2.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.0   Turbidity:   0.5      Color:   15
Closed pH: 7.63        Equil. pH: 8.08             ANC:  374.0        DOC:  3.60
Closed DIC:  4.61   Equil. DIC:  4.30    Meas. Cond:  48.4   Cal. Cond:  49.7
Ca:  267.0          Mg:  157.1       Na:    47.8       K:  10.0       NH4:  0.0
SO4:   77.2       HCO3:  335.9       Cl:    13.5     NO3:   0.0         F:  1.5
Sum Cations:  481.9  Sum Anions:  429.1  Cations/Anions: 1.12   Tot. P:  10.0
Tot. Al:   11.0    Ext. Al:    0.0    Fe:    0.0     Mn:     0.0    SiO2:  1.08
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C2-018   Name: SINE LAKE                        State: WI  Date: 09OCT84
Sample Type: REGULAR           Latitude: 46-09'30"N    Longitude: 89-31'15"W
Elevation:  507   Surface Temp: 12.7  Stratified: MIXED      Site Depth:   4.3
Lake Area:      15 Watershed Area:     67 WA/LA:      4.5 Hydro Type: DRAINAGE
Residence Time:  1.13  Secchi Depth:  2.6   Turbidity:   0.4      Color:    18
Closed pH: 6.49        Equil. pH: 6.88              ANC:   41.0        DOC:  3.65
Closed DIC:  0.68   Equil. DIC:  0.44    Meas. Cond:  12.3   Cal. Cond:  11.7
Ca:   50.2         Mg:    33.3       Na:    10.2         K:   9.6       NH4:  0.6
SO4:   48.3       HCO3:   28.7       Cl:     4.1       NO3:   0.8         F:  1.0
Sum Cations:  104.3  Sum Anions:    82.9  Cations/Anions: 1.26   Tot. P:   4.5
Tot. Al:    12.5    Ext. Al:    6.5    Fe:    15.0      Mn:    0.0    SiO2:  0.08
```

```
ID: 2C2-019   Name: NELLIE LAKE                      State: WI  Date: 09OCT84
Sample Type: REGULAR           Latitude: 46-05'45"N    Longitude: 89-35'00"W
Elevation:  501   Surface Temp: 11.6  Stratified: MIXED      Site Depth:   4.0
Lake Area:       5 Watershed Area:     21 WA/LA:      4.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.7   Turbidity:   0.9      Color:    80
Closed pH: 5.58        Equil. pH: 6.46              ANC:   32.0        DOC:  7.50
Closed DIC:  2.41   Equil. DIC:  0.32    Meas. Cond:   9.3   Cal. Cond:   8.1
Ca:   39.4         Mg:    18.1       Na:     5.2         K:  17.6       NH4:  0.6
SO4:   12.7       HCO3:   27.0       Cl:     4.8       NO3:   2.1         F:  0.9
Sum Cations:   82.1  Sum Anions:    47.5  Cations/Anions: 1.73   Tot. P:  15.0
Tot. Al:    44.0    Ext. Al:   31.0    Fe:   300.0      Mn:   30.0    SiO2:  0.06
```

```
ID: 2C2-020   Name: WHITE BIRCH LAKE                 State: WI  Date: 09OCT84
Sample Type: REGULAR           Latitude: 46-03'45"N    Longitude: 89-31'25"W
Elevation:  515   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   6.1
Lake Area:      46 Watershed Area:    528 WA/LA:     11.5 Hydro Type: DRAINAGE
Residence Time:  0.80  Secchi Depth:  3.2   Turbidity:   0.6      Color:     5
Closed pH: 8.01        Equil. pH: 7.94              ANC:  519.0        DOC:  4.10
Closed DIC:  5.95   Equil. DIC:  5.60    Meas. Cond:  58.6   Cal. Cond:  59.2
Ca:  328.3         Mg:   192.5       Na:    45.7         K:  13.3       NH4:  0.6
SO4:   62.5       HCO3:  454.2       Cl:     7.9       NO3:   0.7         F:  2.5
Sum Cations:  580.4  Sum Anions:   529.5  Cations/Anions: 1.10   Tot. P:   2.0
Tot. Al:     1.0    Ext. Al:    3.0    Fe:    10.0      Mn:    0.0    SiO2:  1.23
```

```
ID: 2C2-021   Name: STARRETT LAKE                    State: WI  Date: 31OCT84
Sample Type: REGULAR           Latitude: 46-01'40"N    Longitude: 89-34'25"W
Elevation:  502   Surface Temp:  6.4  Stratified: MIXED      Site Depth:   4.6
Lake Area:      27 Watershed Area:     85 WA/LA:      3.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.1   Turbidity:   1.4      Color:     8
Closed pH: 6.49        Equil. pH: 6.62              ANC:   34.0        DOC:  3.25
Closed DIC:  0.65   Equil. DIC:  0.59    Meas. Cond:  14.2   Cal. Cond:  14.3
Ca:   63.1         Mg:    33.7       Na:    15.7         K:   7.7       NH4:  1.7
SO4:   62.8       HCO3:   31.7       Cl:     7.3       NO3:   0.4         F:  1.0
Sum Cations:  122.4  Sum Anions:   103.2  Cations/Anions: 1.19   Tot. P:  20.5
Tot. Al:    44.0    Ext. Al:    0.0    Fe:     5.0      Mn:    0.0    SiO2:  0.14
```

```
ID: 2C2-022   Name: TOWER LAKE                       State: WI  Date: 04NOV84
Sample Type: REGULAR           Latitude: 46-07'32"N    Longitude: 89-26'15"W
Elevation:  519   Surface Temp:  3.1  Stratified: MIXED      Site Depth:   7.9
Lake Area:      12 Watershed Area:     52 WA/LA:      4.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.1   Turbidity:   1.5      Color:    35
Closed pH: 7.36        Equil. pH: 7.74              ANC:  326.0        DOC:  2.90
Closed DIC:  4.25   Equil. DIC:  3.80    Meas. Cond:  39.8   Cal. Cond:  40.3
Ca:  205.1         Mg:   134.9       Na:    45.2         K:  14.8       NH4:  0.0
SO4:   46.6       HCO3:  289.8       Cl:    10.4       NO3:   0.0         F:  1.9
Sum Cations:  400.1  Sum Anions:   349.2  Cations/Anions: 1.15   Tot. P:  10.0
Tot. Al:     5.0    Ext. Al:    0.0    Fe:   300.0      Mn:    0.0    SiO2:  8.22
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C2-024   Name: STONE LAKE                          State: WI  Date: 07NOV84
Sample Type: REGULAR             Latitude: 46-01'30"N    Longitude: 90-07'15"W
Elevation:  486   Surface Temp:  2.4  Stratified: MIXED      Site Depth:   6.1
Lake Area:       32 Watershed Area:     199 WA/LA:      6.3 Hydro Type: DRAINAGE
Residence Time:  1.27  Secchi Depth:  1.6   Turbidity:   1.7      Color:    40
Closed pH: 7.39        Equil. pH: 7.95               ANC:  342.8        DOC:  7.50
Closed DIC:  4.04   Equil. DIC:  3.89   Meas. Cond:  44.2   Cal. Cond:  44.4
Ca:  264.5          Mg:  119.3         Na:   49.2          K:  12.5      NH4:  0.6
SO4:   47.1       HCO3:  286.3       Cl:   28.2        NO3:   0.6          F:  1.8
Sum Cations:  446.1  Sum Anions:  366.4  Cations/Anions: 1.22   Tot. P:  18.0
Tot. Al:    12.0    Ext. Al:    1.0    Fe:  190.0       Mn:    0.0    SiO2:  1.51

ID: 2C2-025   Name: CHARNLEY LAKE                       State: WI  Date: 07NOV84
Sample Type: REGULAR             Latitude: 46-01'15"N    Longitude: 90-09'00"W
Elevation:  488   Surface Temp:  3.8  Stratified: MIXED      Site Depth:   3.7
Lake Area:       27 Watershed Area:     129 WA/LA:      4.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.0   Turbidity:   0.5      Color:    13
Closed pH: 6.46        Equil. pH: 6.88               ANC:   38.4        DOC:  3.00
Closed DIC:  0.79   Equil. DIC:  0.57   Meas. Cond:  14.3   Cal. Cond:  14.0
Ca:   60.4          Mg:   32.9         Na:   14.8          K:  11.0      NH4:  0.6
SO4:   55.5       HCO3:   37.4       Cl:   10.2        NO3:   0.0          F:  0.9
Sum Cations:  120.1  Sum Anions:  104.0  Cations/Anions: 1.15   Tot. P:  11.5
Tot. Al:    15.5    Ext. Al:    2.0    Fe:   30.0       Mn:    0.0    SiO2:  0.00

ID: 2C2-026   Name: CAP HENRY LAKE                      State: WI  Date: 07NOV84
Sample Type: REGULAR             Latitude: 46-00'45"N    Longitude: 90-01'15"W
Elevation:  487   Surface Temp:  4.3  Stratified: MIXED      Site Depth:  14.6
Lake Area:       17 Watershed Area:      52 WA/LA:      3.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.7   Turbidity:   0.4      Color:    15
Closed pH: 6.12        Equil. pH: 6.81               ANC:   23.8        DOC:  3.10
Closed DIC:  0.76   Equil. DIC:  0.42   Meas. Cond:  14.6   Cal. Cond:  14.8
Ca:   57.9          Mg:   31.3         Na:    6.5          K:  16.1      NH4:  2.8
SO4:   72.7       HCO3:   21.3       Cl:    6.2        NO3:   6.0          F:  1.4
Sum Cations:  115.4  Sum Anions:  107.5  Cations/Anions: 1.07   Tot. P:  13.0
Tot. Al:    17.0    Ext. Al:    3.0    Fe:   30.0       Mn:   10.0    SiO2:  0.00

ID: 2C2-028   Name: LONG INTERLAKEN LAKE                State: WI  Date: 01NOV84
Sample Type: REGULAR             Latitude: 45-57'45"N    Longitude: 89-54'00"W
Elevation:  483   Surface Temp:  8.3  Stratified: MIXED      Site Depth:  19.2
Lake Area:      144 Watershed Area:    7047 WA/LA:     48.8 Hydro Type: DRAINAGE
Residence Time:  0.68  Secchi Depth:  2.5   Turbidity:   1.2      Color:    10
Closed pH: 7.52        Equil. pH: 8.25               ANC:  584.4        DOC:  2.50
Closed DIC:  7.29   Equil. DIC:  6.55   Meas. Cond:  73.1   Cal. Cond:  75.2
Ca:  433.6          Mg:  190.0         Na:   83.1          K:  15.9      NH4:  1.7
SO4:   57.5       HCO3:  550.6       Cl:   57.3        NO3:   1.1          F:  2.7
Sum Cations:  724.3  Sum Anions:  671.4  Cations/Anions: 1.08   Tot. P:  13.0
Tot. Al:    16.0    Ext. Al:    0.0    Fe:   40.0       Mn:    0.0    SiO2:  4.28

ID: 2C2-029   Name: (NO NAME)                           State: WI  Date: 01NOV84
Sample Type: REGULAR             Latitude: 45-56'05"N    Longitude: 89-54'55"W
Elevation:  483   Surface Temp:  8.2  Stratified: MIXED      Site Depth:   8.8
Lake Area:        5 Watershed Area:      98 WA/LA:     18.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  6.3   Turbidity:   0.2      Color:    15
Closed pH: 6.01        Equil. pH: 6.60               ANC:   17.0        DOC:  2.30
Closed DIC:  0.86   Equil. DIC:  0.36   Meas. Cond:  11.3   Cal. Cond:  11.1
Ca:   42.4          Mg:   24.7         Na:    4.8          K:  13.3      NH4:  1.1
SO4:   51.4       HCO3:   17.9       Cl:    8.2        NO3:   0.6          F:  0.7
Sum Cations:   87.1  Sum Anions:   78.8  Cations/Anions: 1.11   Tot. P:  10.0
Tot. Al:    16.0    Ext. Al:    0.0    Fe:   60.0       Mn:   10.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C2-030   Name: KASOMO LAKE                          State: WI  Date: 31OCT84
Sample Type: REGULAR            Latitude: 45-57'05"N    Longitude: 89-31'50"W
Elevation:  486   Surface Temp:  5.6  Stratified: MIXED      Site Depth:   4.3
Lake Area:        9 Watershed Area:       54 WA/LA:      5.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.6   Turbidity:    0.8      Color:    15
Closed pH: 5.02         Equil. pH: 4.97            ANC:    13.0         DOC:  4.10
Closed DIC:  0.26    Equil. DIC:  0.21    Meas. Cond:  14.6   Cal. Cond:  14.2
Ca:   38.9          Mg:   23.0        Na:    7.4          K:   7.4       NH4:  1.7
SO4:   60.2       HCO3:     1.6       Cl:    8.2        NO3:   0.0          F:  0.7
Sum Cations:   90.2  Sum Anions:   70.7  Cations/Anions: 1.28   Tot. P:  16.0
Tot. Al:    39.0    Ext. Al:  24.0    Fe:   20.0      Mn:    30.0     SiO2:  0.12

ID: 2C2-031   Name: MUSKELLUNGE LAKE                     State: WI  Date: 30OCT84
Sample Type: REGULAR            Latitude: 45-57'00"N    Longitude: 89-22'45"W
Elevation:  494   Surface Temp:  6.7  Stratified: MIXED      Site Depth:   4.9
Lake Area:      109 Watershed Area:      394 WA/LA:      3.6 Hydro Type: DRAINAGE
Residence Time:  1.47  Secchi Depth:  1.3   Turbidity:    3.9      Color:    30
Closed pH: 7.55         Equil. pH: 8.22            ANC:   688.0         DOC:  4.80
Closed DIC:   7.84    Equil. DIC:  7.51   Meas. Cond:  72.8   Cal. Cond:  73.0
Ca:  410.7          Mg:  249.2        Na:   77.0          K:  14.3       NH4:  0.6
SO4:   35.0       HCO3:   592.4       Cl:   10.2        NO3:   2.3          F:  2.7
Sum Cations:  751.8  Sum Anions:  644.4  Cations/Anions: 1.17   Tot. P:  36.0
Tot. Al:    10.0    Ext. Al:   0.0    Fe:  100.0      Mn:     0.0     SiO2: 22.60

ID: 2C2-032   Name: BRAGONIER LAKE                       State: WI  Date: 30OCT84
Sample Type: REGULAR            Latitude: 45-54'30"N    Longitude: 89-24'20"W
Elevation:  492   Surface Temp:  7.8  Stratified: MIXED      Site Depth:   5.2
Lake Area:       17 Watershed Area:       73 WA/LA:      4.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.9   Turbidity:    0.7      Color:    40
Closed pH: 6.32         Equil. pH: 7.09            ANC:    54.0         DOC:  4.40
Closed DIC:   1.09    Equil. DIC:  0.71   Meas. Cond:  14.9   Cal. Cond:  14.8
Ca:   58.9          Mg:   37.0        Na:   22.2          K:   7.9       NH4:  2.2
SO4:   55.8       HCO3:    39.8       Cl:   10.2        NO3:   3.5          F:  1.1
Sum Cations:  128.7  Sum Anions:  110.3  Cations/Anions: 1.17   Tot. P:  25.0
Tot. Al:    29.0    Ext. Al:   2.0    Fe:  220.0      Mn:    20.0     SiO2:  1.92

ID: 2C2-033   Name: RAINBOW FLOWAGE (S. END)             State: WI  Date: 29OCT84
Sample Type: REGULAR            Latitude: 45-49'30"N    Longitude: 89-29'15"W
Elevation:  486   Surface Temp:  6.5  Stratified: MIXED      Site Depth:   0.9
Lake Area:       40 Watershed Area:     3818 WA/LA:     96.4 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  1.1   Turbidity:    3.3      Color:   125
Closed pH: 6.81         Equil. pH: 7.41            ANC:   302.0         DOC: 10.60
Closed DIC:   4.29    Equil. DIC:  2.97   Meas. Cond:  42.9   Cal. Cond:  45.1
Ca:  226.0          Mg:  152.2        Na:   58.3          K:  20.5       NH4:  1.7
SO4:   57.5       HCO3:   241.5       Cl:   45.1        NO3:   0.0          F:  2.7
Sum Cations:  458.8  Sum Anions:  347.1  Cations/Anions: 1.32   Tot. P:  28.0
Tot. Al:    40.0    Ext. Al:  10.0    Fe:  880.0      Mn:    10.0     SiO2: 12.86

ID: 2C2-034   Name: LONG LAKE (NORTH END)                State: WI  Date: 27OCT84
Sample Type: REGULAR            Latitude: 45-47'37"N    Longitude: 89-29'35"W
Elevation:  489   Surface Temp:  8.0  Stratified: MIXED      Site Depth:   3.5
Lake Area:       18 Watershed Area:      272 WA/LA:     14.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.3   Turbidity:    0.3      Color:    20
Closed pH: 5.61         Equil. pH: 5.93            ANC:     6.0         DOC:  3.80
Closed DIC:   0.67    Equil. DIC:  0.21   Meas. Cond:  11.5   Cal. Cond:  10.8
Ca:   38.4          Mg:   23.0        Na:    5.7          K:  10.2       NH4:  3.3
SO4:   53.5       HCO3:     7.5       Cl:    4.9        NO3:   0.6          F:  0.7
Sum Cations:   83.4  Sum Anions:   67.2  Cations/Anions: 1.24   Tot. P:   7.0
Tot. Al:    25.0    Ext. Al:   7.0    Fe:   40.0      Mn:    20.0     SiO2:  0.05
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C2-035   Name: MILL LAKE                           State: WI  Date: 31OCT84
Sample Type: REGULAR               Latitude: 45-48'00"N    Longitude: 89-19'30"W
Elevation:  504   Surface Temp:  4.9  Stratified: MIXED      Site Depth:   2.4
Lake Area:      22 Watershed Area:     293 WA/LA:     13.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.1   Turbidity:   0.9      Color:   40
Closed pH: 5.16          Equil. pH: 5.14              ANC:    -8.1        DOC:  4.50
Closed DIC:  0.28   Equil. DIC:  0.17    Meas. Cond:   20.7   Cal. Cond:  21.0
Ca:   49.4          Mg:    29.6       Na:    34.8        K:  14.6       NH4:   1.7
SO4:   81.0       HCO3:     1.5       Cl:    44.3      NO3:    0.0          F:   1.0
Sum Cations:  140.3  Sum Anions:   127.8  Cations/Anions: 1.10   Tot. P:  17.0
Tot. Al:    44.0    Ext. Al:  26.0     Fe:   120.0      Mn:    50.0     SiO2:   0.52

ID: 2C2-036   Name: LITTLE SPIDER LAKE                  State: WI  Date: 29OCT84
Sample Type: REGULAR               Latitude: 45-45'40"N    Longitude: 89-25'55"W
Elevation:  492   Surface Temp:  7.3  Stratified: MIXED      Site Depth:   4.0
Lake Area:       5 Watershed Area:      26 WA/LA:      5.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.4   Turbidity:  24.0      Color:  145
Closed pH: 6.87          Equil. pH: 7.61              ANC:  254.0         DOC: 11.40
Closed DIC:  3.41   Equil. DIC:  2.46    Meas. Cond:   38.0   Cal. Cond:  39.1
Ca:  212.6          Mg:   114.3       Na:    41.3        K:  12.8       NH4:  27.2
SO4:   49.3       HCO3:   217.4       Cl:    13.0      NO3:    8.1          F:   2.2
Sum Cations:  408.3  Sum Anions:   290.3  Cations/Anions: 1.41   Tot. P:  47.0
Tot. Al:    32.0    Ext. Al:   2.0     Fe:  2290.0      Mn:    80.0     SiO2:  11.33

ID: 2C2-037   Name: LOST LAKE                           State: WI  Date: 29OCT84
Sample Type: REGULAR               Latitude: 45-45'05"N    Longitude: 89-24'40"W
Elevation:  490   Surface Temp:  6.1  Stratified: MIXED      Site Depth:   1.3
Lake Area:      21 Watershed Area:     135 WA/LA:      6.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.3   Turbidity:   1.5      Color:   85
Closed pH: 6.83          Equil. pH: 7.27              ANC:  152.0         DOC: 11.80
Closed DIC:  1.73   Equil. DIC:  1.30    Meas. Cond:   35.1   Cal. Cond:  35.2
Ca:  165.2          Mg:   130.8       Na:    53.9        K:  14.1       NH4:   1.7
SO4:   90.4       HCO3:   101.9       Cl:    32.7      NO3:    1.7          F:   1.9
Sum Cations:  365.8  Sum Anions:   228.8  Cations/Anions: 1.60   Tot. P:  15.0
Tot. Al:    37.0    Ext. Al:  10.0     Fe:   310.0      Mn:    10.0     SiO2:   3.32

ID: 2C2-038   Name: LOST LAKE                           State: WI  Date: 31OCT84
Sample Type: REG/SPC/NRC/          Latitude: 45-46'10"N    Longitude: 89-19'10"W
Elevation:  490   Surface Temp:  5.3  Stratified: MIXED      Site Depth:   4.0
Lake Area:      65 Watershed Area:     347 WA/LA:      5.3 Hydro Type: DRAINAGE
Residence Time:  0.94  Secchi Depth:  1.1   Turbidity:   3.3      Color:   45
Closed pH: 7.65          Equil. pH: 7.98              ANC:  477.0         DOC:  9.30
Closed DIC:  5.25   Equil. DIC:  5.08    Meas. Cond:   79.8   Cal. Cond:  82.3
Ca:  362.3          Mg:   268.2       Na:   121.8        K:  21.5       NH4:   2.2
SO4:  103.7       HCO3:   403.5       Cl:   161.1      NO3:    0.0          F:   2.2
Sum Cations:  776.0  Sum Anions:   671.2  Cations/Anions: 1.16   Tot. P:  27.0
Tot. Al:    19.0    Ext. Al:   0.0     Fe:   260.0      Mn:    20.0     SiO2:   6.69

ID: 2C2-039   Name: BASS LAKE                           State: WI  Date: 29OCT84
Sample Type: REGULAR               Latitude: 45-42'55"N    Longitude: 89-23'05"W
Elevation:  480   Surface Temp:  7.7  Stratified: MIXED      Site Depth:   4.3
Lake Area:       5 Watershed Area:      16 WA/LA:      3.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.6   Turbidity:   0.6      Color:   30
Closed pH: 5.62          Equil. pH: 5.89              ANC:    8.0         DOC:  5.90
Closed DIC:  0.50   Equil. DIC:  0.22    Meas. Cond:   10.9   Cal. Cond:  10.0
Ca:   34.4          Mg:    22.2       Na:    10.4        K:  17.1       NH4:   0.6
SO4:   36.2       HCO3:     5.6       Cl:    10.4      NO3:    0.0          F:   1.2
Sum Cations:   87.5  Sum Anions:    53.4  Cations/Anions: 1.64   Tot. P:  13.0
Tot. Al:    19.0    Ext. Al:   6.0     Fe:    70.0      Mn:    40.0     SiO2:   0.56
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C2-040    Name: LAKE MARIE
Sample Type: REGULAR                                        State: WI  Date: 01NOV84
Elevation:  483   Surface Temp:  5.7     Latitude: 45-47'20"N    Longitude: 89-54'35"W
Lake Area:       17 Watershed Area:       75 WA/LA:    Stratified: MIXED    Site Depth:   7.0
Residence Time:    *    Secchi Depth:  1.1   Turbidity:   4.4 Hydro Type: SEEPAGE
Closed pH: 6.77          Equil. pH: 7.23                    1.8       Color:   40
Closed DIC:  1.27   Equil. DIC:  0.97              ANC:  101.0            DOC:  0.10
Ca:   68.9             Mg:    45.2       Meas. Cond:  16.3  Cal. Cond:  13.9
SO4:   17.3         HCO3:    61.9       Na:    15.2       K:  23.8      NH4:  0.0
Sum Cations:  153.4  Sum Anions:    88.4  Cl:     7.9      NO3:   0.0        F:  1.3
Tot. Al:    16.0     Ext. Al:    3.0   Cations/Anions: 1.74   Tot. P:  15.0
                                      Fe:    70.0      Mn:     0.0    SiO2:  0.14

ID: 2C2-041    Name: TAYLOR LAKE
Sample Type: REGULAR                                        State: WI  Date: 31OCT84
Elevation:  497   Surface Temp:  6.8     Latitude: 45-54'30"N    Longitude: 89-12'55"W
Lake Area:        7 Watershed Area:       34 WA/LA:    Stratified: MIXED    Site Depth:   6.7
Residence Time:    *    Secchi Depth:  3.6   Turbidity:   5.1 Hydro Type: SEEPAGE
Closed pH: 6.54          Equil. pH: 6.87                    0.5       Color:   10
Closed DIC:  0.79   Equil. DIC:  0.65              ANC:   41.0            DOC:  2.70
Ca:   56.4             Mg:    36.2       Meas. Cond:  17.0  Cal. Cond:  17.4
SO4:   64.8         HCO3:    40.5       Na:    33.5       K:  15.3      NH4:  2.2
Sum Cations:  144.1  Sum Anions:   132.3  Cl:    26.0      NO3:   0.1        F:  1.0
Tot. Al:    16.0     Ext. Al:    0.0   Cations/Anions: 1.09   Tot. P:   6.0
                                      Fe:     0.0      Mn:     0.0    SiO2:  0.37

ID: 2C2-042    Name: MUD MINNOW LAKE
Sample Type: REGULAR                                        State: WI  Date: 31OCT84
Elevation:  498   Surface Temp:  5.7     Latitude: 45-52'45"N    Longitude: 89-15'30"W
Lake Area:        5 Watershed Area:       44 WA/LA:    Stratified: MIXED    Site Depth:   6.1
Residence Time:    *    Secchi Depth:  1.0   Turbidity:   8.1 Hydro Type: SEEPAGE
Closed pH: 6.88          Equil. pH: 7.59                    1.6       Color:  115
Closed DIC:  4.25   Equil. DIC:  3.26              ANC:  292.0            DOC:  8.30
Ca:  221.6             Mg:   162.9       Meas. Cond:  44.9  Cal. Cond:  46.4
SO4:   86.4         HCO3:   261.5       Na:    63.1       K:  15.6      NH4:  7.8
Sum Cations:  471.0  Sum Anions:   363.7  Cl:    11.8      NO3:   1.5        F:  2.3
Tot. Al:    62.0     Ext. Al:   11.0   Cations/Anions: 1.29   Tot. P:   6.0
                                      Fe:   650.0      Mn:    30.0    SiO2: 12.20

ID: 2C2-043    Name: QUARTZ LAKE
Sample Type: REGULAR                                        State: WI  Date: 10OCT84
Elevation:  517   Surface Temp: 13.1     Latitude: 45-56'55"N    Longitude: 88-57'30"W
Lake Area:       18 Watershed Area:      272 WA/LA:    Stratified: MIXED    Site Depth:   4.3
Residence Time:    *    Secchi Depth:  3.1   Turbidity:  15.2 Hydro Type: SEEPAGE
Closed pH: 6.42          Equil. pH: 6.58                    0.6       Color:   10
Closed DIC:  0.61   Equil. DIC:  0.38              ANC:   26.0            DOC:  2.40
Ca:   43.4             Mg:    24.7       Meas. Cond:  10.4  Cal. Cond:  11.1
SO4:   50.4         HCO3:    21.6       Na:    10.4       K:   9.2      NH4:  0.6
Sum Cations:   88.8  Sum Anions:    82.2  Cl:     9.3      NO3:   0.0        F:  0.9
Tot. Al:    11.0     Ext. Al:    3.0   Cations/Anions: 1.08   Tot. P:  13.0
                                      Fe:     0.0      Mn:     0.0    SiO2:  0.33

ID: 2C2-044    Name: FOUR DUCKS LAKE
Sample Type: REGULAR                                        State: WI  Date: 10OCT84
Elevation:  516   Surface Temp: 12.9     Latitude: 45-53'40"N    Longitude: 88-59'15"W
Lake Area:        8 Watershed Area:       60 WA/LA:    Stratified: MIXED    Site Depth:   4.9
Residence Time:    *    Secchi Depth:  4.8   Turbidity:   8.0 Hydro Type: SEEPAGE
Closed pH: 5.22          Equil. pH: 5.32                    0.3       Color:   15
Closed DIC:  0.56   Equil. DIC:  0.14              ANC:    5.0            DOC:  1.90
Ca:   39.4             Mg:    21.4       Meas. Cond:  12.7  Cal. Cond:  13.3
SO4:   76.6         HCO3:     2.4       Na:     2.6       K:   9.7      NH4:  1.7
Sum Cations:   80.5  Sum Anions:    87.1  Cl:     5.6      NO3:   1.9        F:  0.6
Tot. Al:    18.0     Ext. Al:    9.0   Cations/Anions: 0.92   Tot. P:   7.0
                                      Fe:    60.0      Mn:    40.0    SiO2:  0.40
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C2-045   Name: MUD LAKE                           State: WI  Date: 08OCT84
Sample Type: REGULAR           Latitude: 45-31'00"N    Longitude: 89-33'28"W
Elevation:  459   Surface Temp: 12.9  Stratified: MIXED     Site Depth:   3.4
Lake Area:        4 Watershed Area:     23 WA/LA:      5.6 Hydro Type: DRAINAGE
Residence Time:  0.77  Secchi Depth:  1.6   Turbidity:   3.0      Color:   50
Closed pH: 7.66        Equil. pH: 8.34           ANC:  854.0          DOC:  7.70
Closed DIC: 10.30   Equil. DIC:  9.56    Meas. Cond: 132.0   Cal. Cond: 136.5
Ca:  649.2          Mg:  408.0       Na:  182.3        K:  19.9        NH4:  8.3
SO4:   86.6       HCO3:  785.8       Cl:  221.7      NO3:  81.5          F:  2.3
Sum Cations: 1267.8  Sum Anions: 1181.4  Cations/Anions: 1.07   Tot. P:  21.0
Tot. Al:     7.0    Ext. Al:    0.0    Fe:  700.0     Mn:     0.0    SiO2: 11.92

ID: 2C2-046   Name: GERBICK LAKE                       State: WI  Date: 08OCT84
Sample Type: REGULAR           Latitude: 45-27'35"N    Longitude: 89-36'05"W
Elevation:  449   Surface Temp: 13.2  Stratified: MIXED     Site Depth:   4.2
Lake Area:       14 Watershed Area:     47 WA/LA:      3.3 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.8   Turbidity:   2.1      Color:   25
Closed pH: 7.09        Equil. pH: 7.36           ANC:  142.0          DOC: 10.10
Closed DIC:  1.89   Equil. DIC:  1.36    Meas. Cond:  25.9   Cal. Cond:  25.6
Ca:   99.3          Mg:   80.6       Na:   30.9        K:  18.2        NH4: 15.5
SO4:   48.3       HCO3:  116.0       Cl:   14.7      NO3:  13.7          F:  4.8
Sum Cations:  244.6  Sum Anions:  197.6  Cations/Anions: 1.24   Tot. P:  42.0
Tot. Al:    19.0    Ext. Al:    3.0    Fe:   30.0     Mn:     0.0    SiO2:  0.05

ID: 2C2-047   Name: HORSESHOE LAKE                     State: WI  Date: 29OCT84
Sample Type: REGULAR           Latitude: 45-18'45"N    Longitude: 89-37'50"W
Elevation:  465   Surface Temp:  7.9  Stratified: MIXED     Site Depth:  11.0
Lake Area:        6 Watershed Area:     31 WA/LA:      5.0 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  2.0   Turbidity:   0.7      Color:   25
Closed pH: 6.12        Equil. pH: 7.08           ANC:   52.0          DOC:  5.60
Closed DIC:  1.13   Equil. DIC:  0.56    Meas. Cond:  20.9   Cal. Cond:  21.4
Ca:   74.4          Mg:   54.3       Na:   14.4        K:  31.5        NH4:  2.2
SO4:   98.3       HCO3:   33.2       Cl:   15.0      NO3:   1.0          F:  1.2
Sum Cations:  177.4  Sum Anions:  148.7  Cations/Anions: 1.19   Tot. P:  13.0
Tot. Al:    24.0    Ext. Al:    6.0    Fe:   60.0     Mn:    20.0    SiO2:  0.41

ID: 2C2-048   Name: MIDGET LAKE                        State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 45-30'00"N    Longitude: 88-47'40"W
Elevation:  495   Surface Temp:  3.8  Stratified: MIXED     Site Depth:   4.3
Lake Area:        6 Watershed Area:     67 WA/LA:     11.2 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  2.4   Turbidity:   0.6      Color:   20
Closed pH: 6.90        Equil. pH: 7.13           ANC:   69.3          DOC:  6.60
Closed DIC:  0.81   Equil. DIC:  0.62    Meas. Cond:  14.9   Cal. Cond:  15.8
Ca:   66.9          Mg:   48.5       Na:    9.6        K:  11.5        NH4:  4.8
SO4:   54.8       HCO3:   57.9       Cl:    5.4      NO3:   1.2          F:  0.7
Sum Cations:  141.5  Sum Anions:  120.0  Cations/Anions: 1.18   Tot. P:   7.0
Tot. Al:     4.0    Ext. Al:    3.0    Fe:    0.0     Mn:    10.0    SiO2:  0.16

ID: 2C2-049   Name: LITTLE SAND LAKE                   State: WI  Date: 08NOV84
Sample Type: REGULAR           Latitude: 45-28'15"N    Longitude: 88-55'15"W
Elevation:  485   Surface Temp:  3.1  Stratified: MIXED     Site Depth:   4.6
Lake Area:       97 Watershed Area:    352 WA/LA:      3.6 Hydro Type: DRAINAGE
Residence Time:  1.37  Secchi Depth:  3.4   Turbidity:   0.4      Color:   23
Closed pH: 5.74        Equil. pH: 5.96           ANC:   10.3          DOC:  4.05
Closed DIC:  0.25   Equil. DIC:  0.19    Meas. Cond:  21.9   Cal. Cond:  22.6
Ca:   75.6          Mg:   54.3       Na:   18.5        K:  19.4        NH4:  0.0
SO4:  133.6       HCO3:    7.2       Cl:   12.3      NO3:   0.0          F:  1.3
Sum Cations:  170.2  Sum Anions:  154.4  Cations/Anions: 1.10   Tot. P:  12.5
Tot. Al:    29.0    Ext. Al:   18.5    Fe:   20.0     Mn:     0.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C2-050   Name: JUNGLE LAKE                         State: WI  Date: 05NOV84
Sample Type: REGULAR              Latitude: 45-27'15"N    Longitude: 88-50'00"W
Elevation:  485   Surface Temp:  2.2  Stratified: MIXED      Site Depth:   3.7
Lake Area:      73 Watershed Area:     246 WA/LA:      3.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.7  Turbidity:   1.1       Color:    15
Closed pH: 8.05        Equil. pH: 8.31               ANC: 1096.4        DOC:  7.40
Closed DIC: 12.51   Equil. DIC: 13.19    Meas. Cond: 106.6   Cal. Cond: 120.9
Ca:  584.8          Mg:  463.9       Na:   48.3         K:  13.6       NH4:  4.9
SO4:    50.6      HCO3: 1163.1       Cl:    14.1       NO3:   0.8         F:  2.1
Sum Cations: 1115.6  Sum Anions: 1241.0  Cations/Anions: 0.90   Tot. P:  15.0
Tot. Al:     4.0    Ext. Al:    4.0    Fe:     0.0      Mn:     0.0    SiO2:  0.90

ID: 2C2-051   Name: LOIS LAKE                           State: MI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 46-11'52"N    Longitude: 89-15'00"W
Elevation:  523   Surface Temp:  3.9  Stratified: MIXED      Site Depth:   7.9
Lake Area:       8 Watershed Area:     163 WA/LA:     20.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.8  Turbidity:   0.7       Color:   125
Closed pH: 4.81        Equil. pH: 4.88               ANC:    0.1        DOC: 15.20
Closed DIC:  0.91   Equil. DIC:  0.17    Meas. Cond:  18.2   Cal. Cond:  16.4
Ca:   55.9          Mg:   35.4       Na:    10.0        K:   8.9       NH4:  2.2
SO4:   41.4       HCO3:     1.5      Cl:     8.2       NO3:   0.5         F:  0.7
Sum Cations:  129.0  Sum Anions:    52.3  Cations/Anions: 2.47   Tot. P:  13.0
Tot. Al:  120.4    Ext. Al:  64.0    Fe:   380.0      Mn:    40.0    SiO2:  1.40

ID: 2C2-052   Name: KNIFE LAKE                          State: WI  Date: 09OCT84
Sample Type: REGULAR              Latitude: 46-13'25"N    Longitude: 89-40'04"W
Elevation:  517   Surface Temp: 12.1  Stratified: STRONG     Site Depth:  11.9
Lake Area:      10 Watershed Area:      52 WA/LA:      5.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.9  Turbidity:   0.5       Color:   100
Closed pH: 5.38        Equil. pH: 5.61               ANC:   26.0        DOC: 12.30
Closed DIC:  1.12   Equil. DIC:  0.17    Meas. Cond:  19.2   Cal. Cond:  18.5
Ca:   82.3          Mg:   49.4       Na:    13.9        K:  12.8       NH4:  1.7
SO4:   75.8       HCO3:     5.7      Cl:    14.4       NO3:   2.3         F:  1.0
Sum Cations:  164.5  Sum Anions:    99.1  Cations/Anions: 1.66   Tot. P:  10.0
Tot. Al:  196.0    Ext. Al: 160.0    Fe:   420.0      Mn:    40.0    SiO2:  1.86

ID: 2C2-053   Name: SHALLOW POND                        State: WI  Date: 29OCT84
Sample Type: REGULAR              Latitude: 45-46'29"N    Longitude: 89-28'39"W
Elevation:  492   Surface Temp:  7.4  Stratified: MIXED      Site Depth:   7.0
Lake Area:      11 Watershed Area:      44 WA/LA:      4.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  4.3  Turbidity:   0.5       Color:    25
Closed pH: 5.40        Equil. pH: 5.59               ANC:    5.5        DOC:  3.80
Closed DIC:  0.55   Equil. DIC:  0.17    Meas. Cond:  11.9   Cal. Cond:  11.8
Ca:   34.9          Mg:   21.8       Na:     5.0        K:  13.3       NH4:  4.7
SO4:   56.1       HCO3:     4.9      Cl:     7.5       NO3:   1.5         F:  0.9
Sum Cations:   84.1  Sum Anions:    70.8  Cations/Anions: 1.19   Tot. P:   9.5
Tot. Al:   22.0    Ext. Al:   8.5    Fe:    45.0      Mn:    30.0    SiO2:  0.19

ID: 2C2-054   Name: PINE LAKE                           State: WI  Date: 01NOV84
Sample Type: REGULAR              Latitude: 45-49'29"N    Longitude: 89-55'24"W
Elevation:  484   Surface Temp:  6.7  Stratified: MIXED      Site Depth:   6.1
Lake Area:      84 Watershed Area:     290 WA/LA:      3.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.5  Turbidity:   0.5       Color:    15
Closed pH: 7.32        Equil. pH: 7.64               ANC:  213.0        DOC:  4.00
Closed DIC:  2.74   Equil. DIC:  2.41    Meas. Cond:  28.2   Cal. Cond:  27.2
Ca:  145.7          Mg:   34.6       Na:    27.4        K:   8.4       NH4:  0.6
SO4:   35.8       HCO3:   174.6      Cl:     8.7       NO3:   0.5         F:  1.5
Sum Cations:  276.8  Sum Anions:   221.4  Cations/Anions: 1.25   Tot. P:  12.0
Tot. Al:   36.0    Ext. Al:   0.0    Fe:    10.0      Mn:     0.0    SiO2:  0.02
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C2-055   Name: SPRUCE LAKE                            State: WI  Date: 09OCT84
Sample Type: REGULAR              Latitude: 46-03'12"N    Longitude: 89-34'00"W
Elevation:  507   Surface Temp: 12.7  Stratified: MIXED       Site Depth:   4.0
Lake Area:        7 Watershed Area:     148 WA/LA:     22.1 Hydro Type: DRAINAGE
Residence Time:  0.30  Secchi Depth:  3.1   Turbidity:   0.3       Color:   35
Closed pH: 5.41       Equil. pH: 5.55             ANC:     7.0         DOC:  4.20
Closed DIC:  0.55   Equil. DIC:  0.21    Meas. Cond:   9.9   Cal. Cond:   9.1
Ca:   36.4          Mg:    18.9       Na:     5.2          K:   5.9       NH4:  0.6
SO4:   41.2       HCO3:     4.2       Cl:     5.9        NO3:   0.0         F:  0.9
Sum Cations:    70.4  Sum Anions:    52.3  Cations/Anions: 1.35   Tot. P:   2.0
Tot. Al:    23.0    Ext. Al:  19.0     Fe:  140.0      Mn:     10.0    SiO2:  0.12

ID: 2C2-056   Name: CRAWFORD LAKE                          State: WI  Date: 05NOV84
Sample Type: REGULAR              Latitude: 45-25'53"N    Longitude: 88-51'26"W
Elevation:  483   Surface Temp:  4.8  Stratified: MIXED       Site Depth:   5.2
Lake Area:        9 Watershed Area:      80 WA/LA:      8.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.5   Turbidity:   1.2       Color:   20
Closed pH: 6.52       Equil. pH: 7.03             ANC:    76.9         DOC:  5.40
Closed DIC:  1.23   Equil. DIC:  0.71    Meas. Cond:  11.8   Cal. Cond:  14.0
Ca:   64.4          Mg:    38.7       Na:     5.2          K:  23.8       NH4:  6.8
SO4:   34.6       HCO3:    50.3       Cl:     4.8        NO3:   0.8         F:  0.8
Sum Cations:   139.1  Sum Anions:    91.3  Cations/Anions: 1.52   Tot. P:  10.0
Tot. Al:    16.0    Ext. Al:   5.0     Fe:    0.0      Mn:      0.0    SiO2:  0.29

ID: 2C2-057   Name: DEVILS HEAD LAKE                       State: MI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 46-12'55"N    Longitude: 89-14'30"W
Elevation:  525   Surface Temp:  5.0  Stratified: MIXED       Site Depth:  13.4
Lake Area:       40 Watershed Area:     249 WA/LA:      6.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  4.5   Turbidity:   0.3       Color:   20
Closed pH: 5.72       Equil. pH: 6.07             ANC:    11.0         DOC:  3.60
Closed DIC:  0.49   Equil. DIC:  0.21    Meas. Cond:  18.8   Cal. Cond:  19.9
Ca:   71.9          Mg:    43.6       Na:    15.7          K:  13.0       NH4:  0.6
SO4:  107.4       HCO3:     8.3       Cl:    24.3        NO3:   0.7         F:  0.6
Sum Cations:   146.5  Sum Anions:   141.3  Cations/Anions: 1.04   Tot. P:   9.0
Tot. Al:    41.0    Ext. Al:  12.0     Fe:   50.0      Mn:      0.0    SiO2:  0.12

ID: 2C2-058   Name: LAKE CLARA                             State: WI  Date: 08OCT84
Sample Type: REG/SPC/LTM/         Latitude: 45-30'44"N    Longitude: 89-34'15"W
Elevation:  462   Surface Temp: 14.0  Stratified: MIXED       Site Depth:  10.1
Lake Area:       34 Watershed Area:     111 WA/LA:      3.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  5.3   Turbidity:   0.7       Color:   15
Closed pH: 6.46       Equil. pH: 6.77             ANC:    36.0         DOC:  3.60
Closed DIC:  0.84   Equil. DIC:  0.43    Meas. Cond:  32.7   Cal. Cond:  33.0
Ca:   85.3          Mg:    49.4       Na:   100.9          K:  19.4       NH4:  0.6
SO4:  101.8       HCO3:    29.7       Cl:   114.3        NO3:   5.7         F:  1.9
Sum Cations:   256.0  Sum Anions:   253.4  Cations/Anions: 1.01   Tot. P:   6.0
Tot. Al:     6.0    Ext. Al:   0.0     Fe:   40.0      Mn:      0.0    SiO2:  0.02

ID: 2C2-060   Name: STEWART LAKE                           State: WI  Date: 30OCT84
Sample Type: REGULAR              Latitude: 46-00'55"N    Longitude: 89-23'53"W
Elevation:  509   Surface Temp:  7.0  Stratified: MIXED       Site Depth:   4.0
Lake Area:       16 Watershed Area:      47 WA/LA:      2.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.4   Turbidity:   0.7       Color:   20
Closed pH: 6.37       Equil. pH: 6.62             ANC:    28.0         DOC:  3.90
Closed DIC:  0.41   Equil. DIC:  0.45    Meas. Cond:  13.9   Cal. Cond:  14.4
Ca:   50.4          Mg:    35.4       Na:    17.0          K:   7.7       NH4:  0.6
SO4:   78.3       HCO3:    14.5       Cl:     6.2        NO3:   3.7         F:  1.2
Sum Cations:   111.9  Sum Anions:   103.9  Cations/Anions: 1.08   Tot. P:  17.0
Tot. Al:    16.0    Ext. Al:   1.0     Fe:   10.0      Mn:      0.0    SiO2:  0.42
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C3-001   Name: LAKE GOGEBIC                      State: MI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 46-30'00"N    Longitude: 89-35'00"W
Elevation:  395   Surface Temp:  4.9  Stratified: MIXED      Site Depth:   7.9
Lake Area:    5015 Watershed Area:  42093 WA/LA:      8.4 Hydro Type: DRAINAGE
Residence Time:  0.99  Secchi Depth:  2.0   Turbidity:   1.4      Color:    40
Closed pH: 7.58        Equil. pH: 7.92               ANC:  421.0         DOC:  8.60
Closed DIC:  4.89   Equil. DIC:  4.57    Meas. Cond:  61.7   Cal. Cond:  63.2
Ca:  370.3          Mg:  182.6        Na:    66.1         K:  13.6       NH4:  0.0
SO4:    96.4      HCO3:  354.1       Cl:   45.1       NO3:    0.0          F:  2.8
Sum Cations:  632.6  Sum Anions:  499.4  Cations/Anions: 1.27   Tot. P:  10.0
Tot. Al:    44.0    Ext. Al:    2.0     Fe:    40.0      Mn:     0.0    SiO2:  0.40

ID: 2C3-002   Name: HAWK LAKE                         State: MI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-19'10"N    Longitude: 89-44'15"W
Elevation:  474   Surface Temp:  1.7  Stratified: MIXED      Site Depth:   1.8
Lake Area:      27 Watershed Area:     65 WA/LA:      2.4 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  2.0   Turbidity:   1.0      Color:    15
Closed pH: 7.63        Equil. pH: 7.90               ANC:  486.1         DOC:  5.70
Closed DIC:  5.71   Equil. DIC:  6.14    Meas. Cond:  48.3   Cal. Cond:  55.6
Ca:  387.2          Mg:  124.2        Na:    32.2         K:  12.0       NH4:  2.7
SO4:    30.8      HCO3:  457.7       Cl:    2.8       NO3:    0.0          F:  1.8
Sum Cations:  558.4  Sum Anions:  494.5  Cations/Anions: 1.13   Tot. P:  26.0
Tot. Al:     6.0    Ext. Al:    3.0     Fe:    50.0      Mn:    10.0    SiO2:  1.95

ID: 2C3-003   Name: PAINT LAKE                        State: MI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 46-21'00"N    Longitude: 88-53'15"W
Elevation:  486   Surface Temp:  3.4  Stratified: MIXED      Site Depth:   5.5
Lake Area:      97 Watershed Area:   2088 WA/LA:     21.6 Hydro Type: DRAINAGE
Residence Time:  0.38  Secchi Depth:  1.3   Turbidity:   4.1      Color:    30
Closed pH: 7.69        Equil. pH: 8.46               ANC: 1023.0         DOC:  4.80
Closed DIC: 11.73   Equil. DIC: 11.64    Meas. Cond: 100.9   Cal. Cond: 107.8
Ca:  674.6          Mg:  313.4        Na:    51.3         K:  14.3       NH4:  1.7
SO4:    55.8      HCO3:  930.2       Cl:   12.1       NO3:    1.1          F:  2.1
Sum Cations: 1055.4  Sum Anions: 1005.5  Cations/Anions: 1.05   Tot. P:  27.0
Tot. Al:    12.0    Ext. Al:    0.0     Fe:    70.0      Mn:    10.0    SiO2:  5.87

ID: 2C3-004   Name: BASS LAKE                         State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-17'10"N    Longitude: 90-02'45"W
Elevation:  510   Surface Temp:  3.1  Stratified: MIXED      Site Depth:   3.0
Lake Area:       6 Watershed Area:     54 WA/LA:      9.1 Hydro Type: DRAINAGE
Residence Time:  0.47  Secchi Depth:  0.4   Turbidity:   0.7      Color:   130
Closed pH: 5.06        Equil. pH: 5.11               ANC:   23.8         DOC: 17.00
Closed DIC:  0.83   Equil. DIC:  0.16    Meas. Cond:  20.9   Cal. Cond:  19.1
Ca:   77.3          Mg:   53.5        Na:    19.1         K:   6.4       NH4:  9.4
SO4:    73.9      HCO3:    2.9       Cl:    5.9       NO3:    2.0          F:  1.2
Sum Cations:  173.8  Sum Anions:   86.0  Cations/Anions: 2.02   Tot. P:   9.0
Tot. Al:   262.0    Ext. Al:  120.0     Fe:   470.0      Mn:    30.0    SiO2:  4.42

ID: 2C3-005   Name: BENA LAKE                         State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-17'30"N    Longitude: 89-53'55"W
Elevation:  500   Surface Temp:  2.6  Stratified: MIXED      Site Depth:   3.4
Lake Area:       5 Watershed Area:     34 WA/LA:      6.8 Hydro Type: DRAINAGE
Residence Time:  0.67  Secchi Depth:  1.7   Turbidity:   1.1      Color:   120
Closed pH: 7.03        Equil. pH: 7.74               ANC:  326.1         DOC: 12.70
Closed DIC:  3.88   Equil. DIC:  3.19    Meas. Cond:  41.3   Cal. Cond:  43.1
Ca:  235.5          Mg:  123.4        Na:    67.9         K:  17.9       NH4:  8.8
SO4:    32.9      HCO3:  240.2       Cl:   47.1       NO3:    1.8          F:  1.9
Sum Cations:  453.6  Sum Anions:  324.3  Cations/Anions: 1.40   Tot. P:  25.0
Tot. Al:    69.0    Ext. Al:   18.0     Fe:   460.0      Mn:    10.0    SiO2:  4.06
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C3-006   Name: CORNELIA LAKE                     State: MI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 46-16'05"N    Longitude: 89-30'10"W
Elevation:  516   Surface Temp:  3.7  Stratified: MIXED      Site Depth:    7.0
Lake Area:        6 Watershed Area:      28 WA/LA:      4.8 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.5   Turbidity:   0.4      Color:    45
Closed pH: 6.05        Equil. pH: 6.59              ANC:   37.0          DOC:  5.90
Closed DIC:  0.70   Equil. DIC:  0.29    Meas. Cond:  16.1   Cal. Cond:  15.5
Ca:   69.4          Mg:   42.0         Na:   14.4          K:  10.0        NH4:  4.4
SO4:   72.0       HCO3:   17.3       Cl:    4.5        NO3:    1.8          F:  0.6
Sum Cations:  141.0  Sum Anions:   96.3  Cations/Anions: 1.46   Tot. P:  13.0
Tot. Al:   66.0    Ext. Al:  19.0    Fe:  110.0      Mn:    10.0    SiO2:  0.43

ID: 2C3-007   Name: KETCHUM LAKE                      State: MI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 46-16'10"N    Longitude: 88-49'50"W
Elevation:  471   Surface Temp:  0.7  Stratified: MIXED      Site Depth:    3.0
Lake Area:        6 Watershed Area:     852 WA/LA:    133.1 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  1.3   Turbidity:   1.8      Color:   115
Closed pH: 6.99        Equil. pH: 7.95              ANC:  368.0          DOC: 16.40
Closed DIC:  4.20   Equil. DIC:  3.98    Meas. Cond:  49.1   Cal. Cond:  49.9
Ca:  302.9          Mg:  175.2         Na:   42.2          K:  14.6        NH4:  1.7
SO4:   60.8       HCO3:  281.8       Cl:   20.0        NO3:    2.3          F:  1.9
Sum Cations:  536.6  Sum Anions:  367.1  Cations/Anions: 1.46   Tot. P:  19.0
Tot. Al:   68.0    Ext. Al:  17.0    Fe:  330.0      Mn:    20.0    SiO2:  7.81

ID: 2C3-008   Name: CEDAR LAKE                        State: WI  Date: 06NOV84
Sample Type: REGULAR              Latitude: 46-12'30"N    Longitude: 89-57'15"W
Elevation:  491   Surface Temp:  1.8  Stratified: MIXED      Site Depth:    5.8
Lake Area:       75 Watershed Area:    7630 WA/LA:    102.1 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  1.6   Turbidity:   1.9      Color:    50
Closed pH: 7.53        Equil. pH: 8.18              ANC:  784.2          DOC:  8.20
Closed DIC:  9.13   Equil. DIC:  9.00    Meas. Cond:  80.9   Cal. Cond:  92.2
Ca:  558.9          Mg:  239.4         Na:   77.4          K:  17.6        NH4:  2.2
SO4:   62.3       HCO3:  746.8       Cl:   28.5        NO3:    1.0          F:  3.1
Sum Cations:  895.5  Sum Anions:  845.8  Cations/Anions: 1.06   Tot. P:  19.0
Tot. Al:   16.0    Ext. Al:   3.0    Fe:  120.0      Mn:    10.0    SiO2:  4.34

ID: 2C3-009   Name: PRESQUE ISLE LAKE                 State; WI  Date: 06NOV84
Sample Type: REGULAR              Latitude: 46-13'30"N    Longitude: 89-47'00"W
Elevation:  497   Surface Temp:  6.1  Stratified: MIXED      Site Depth:   22.6
Lake Area:      433 Watershed Area:    1645 WA/LA:      3.8 Hydro Type: DRAINAGE
Residence Time:  6.57  Secchi Depth:  4.6   Turbidity:   0.4      Color:    10
Closed pH: 8.02        Equil. pH: 8.40              ANC: 1168.2          DOC:  3.50
Closed DIC: 13.53   Equil. DIC: 14.39    Meas. Cond: 119.4   Cal. Cond: 136.5
Ca:  794.4          Mg:  338.1         Na:   75.3          K:  18.9        NH4:  1.1
SO4:   62.5       HCO3: 1283.3       Cl:   38.4        NO3:    0.0          F:  3.3
Sum Cations: 1227.7  Sum Anions: 1400.0  Cations/Anions: 0.88   Tot. P:   5.0
Tot. Al:    4.0    Ext. Al:   4.0    Fe:   20.0      Mn:    40.0    SiO2:  9.77

ID: 2C3-010   Name: MOCCASIN LAKE                     State: MI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 46-14'06"N    Longitude: 89-30'45"W
Elevation:  505   Surface Temp:  4.2  Stratified: MIXED      Site Depth:    8.8
Lake Area:        6 Watershed Area:     124 WA/LA:     19.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.1   Turbidity:   2.3      Color:    78
Closed pH: 7.06        Equil. pH: 7.93              ANC:  359.5          DOC: 10.15
Closed DIC:  4.85   Equil. DIC:  3.89    Meas. Cond:  44.9   Cal. Cond:  45.3
Ca:  286.7          Mg:  140.3         Na:   34.6          K:  16.2        NH4:  5.0
SO4:   33.2       HCO3:  315.7       Cl:    8.6        NO3:    0.8          F:  1.6
Sum Cations:  482.8  Sum Anions:  360.3  Cations/Anions: 1.34   Tot. P:  22.0
Tot. Al:   59.0    Ext. Al:   1.5    Fe:  175.0      Mn:     0.0    SiO2:  3.24
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C3-011   Name: GUIDES LAKE                         State: MI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 46-14'20"N    Longitude: 89-27'40"W
Elevation:  514   Surface Temp:  3.0  Stratified: MIXED      Site Depth:   8.8
Lake Area:      10 Watershed Area:      54 WA/LA:      5.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.2  Turbidity:   0.9      Color:  115
Closed pH: 6.23       Equil. pH: 7.12              ANC:   82.0         DOC: 10.50
Closed DIC:   1.51   Equil. DIC:  0.62     Meas. Cond:  20.7   Cal. Cond:  19.3
Ca:    90.8           Mg:    55.9         Na:    20.0         K:  23.0       NH4:  9.4
SO4:    53.5       HCO3:    48.6         Cl:     9.3       NO3:    2.3          F:  1.0
Sum Cations:   199.8  Sum Anions:   114.7  Cations/Anions: 1.74   Tot. P:  20.0
Tot. Al:  173.0     Ext. Al:  50.0     Fe:   400.0     Mn:     40.0    SiO2:  0.96

ID: 2C3-012   Name: CROOKED LAKE                        State: MI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 46-13'53"N    Longitude: 89-17'17"W
Elevation:  519   Surface Temp:  5.8  Stratified: MIXED      Site Depth:  18.3
Lake Area:     250 Watershed Area:    1554 WA/LA:      6.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.2  Turbidity:   0.6      Color:   20
Closed pH: 7.59       Equil. pH: 8.46              ANC: 1082.4        DOC:  3.30
Closed DIC: 13.02   Equil. DIC: 12.21     Meas. Cond: 108.5   Cal. Cond: 116.4
Ca:   734.0           Mg:   319.2         Na:    60.9         K:  19.2       NH4:  7.2
SO4:    57.9       HCO3: 1007.2         Cl:    10.4       NO3:    0.3          F:  3.7
Sum Cations:  1140.5  Sum Anions:  1084.1  Cations/Anions: 1.05   Tot. P:  27.0
Tot. Al:    5.0     Ext. Al:   1.0     Fe:    80.0     Mn:    160.0    SiO2:  5.32

ID: 2C3-013   Name: FEELY LAKE                          State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 46-10'00"N    Longitude: 90-07'10"W
Elevation:  484   Surface Temp:  5.2  Stratified: MIXED      Site Depth:  10.1
Lake Area:       8 Watershed Area:      28 WA/LA:      3.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.7  Turbidity:   0.6      Color:   20
Closed pH: 6.21       Equil. pH: 6.92              ANC:   41.7         DOC:  2.20
Closed DIC:   1.12   Equil. DIC:  0.54     Meas. Cond:  12.8   Cal. Cond:  12.3
Ca:    47.9           Mg:    25.5         Na:     7.0         K:  17.9       NH4:  1.1
SO4:    50.4       HCO3:    30.5         Cl:     9.3       NO3:    0.3          F:  0.6
Sum Cations:   100.0  Sum Anions:    91.1  Cations/Anions: 1.10   Tot. P:  20.0
Tot. Al:   15.0     Ext. Al:   1.0     Fe:    10.0     Mn:     20.0    SiO2:  0.00

ID: 2C3-014   Name: TURTLE FLAMBEAU FLOWAGE             State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 46-05'00"N    Longitude: 90-12'00"W
Elevation:  479   Surface Temp:  1.0  Stratified: MIXED      Site Depth:   2.4
Lake Area:    5263 Watershed Area:  169319 WA/LA:     32.2 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  1.4  Turbidity:   2.7      Color:   40
Closed pH: 7.59       Equil. pH: 8.18              ANC:  599.8         DOC:  6.10
Closed DIC:   7.12   Equil. DIC:  7.08     Meas. Cond:  71.2   Cal. Cond:  76.1
Ca:   428.1           Mg:   209.8         Na:    67.0         K:  16.1       NH4:  3.3
SO4:    57.9       HCO3:   556.0         Cl:    59.2       NO3:    7.1          F:  2.8
Sum Cations:   724.4  Sum Anions:   685.1  Cations/Anions: 1.06   Tot. P:  16.0
Tot. Al:   70.0     Ext. Al:   1.0     Fe:   250.0     Mn:     10.0    SiO2:  3.92

ID: 2C3-015   Name: HIAWATHA LAKE                       State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-11'20"N    Longitude: 89-49'50"W
Elevation:  499   Surface Temp:  5.0  Stratified: MIXED      Site Depth:  17.4
Lake Area:      15 Watershed Area:     246 WA/LA:     17.0 Hydro Type: DRAINAGE
Residence Time:  1.63  Secchi Depth:  1.7  Turbidity:   1.1      Color:  115
Closed pH: 6.98       Equil. pH: 7.67              ANC:  407.4         DOC: 12.50
Closed DIC:   5.11   Equil. DIC:  4.18     Meas. Cond:  49.1   Cal. Cond:  53.9
Ca:   344.8           Mg:   153.8         Na:    35.2         K:  14.6       NH4:  1.6
SO4:    84.1       HCO3:   319.0         Cl:    12.4       NO3:    3.4          F:  1.7
Sum Cations:   550.1  Sum Anions:   421.3  Cations/Anions: 1.31   Tot. P:   5.0
Tot. Al:   75.0     Ext. Al:  21.0     Fe:   240.0     Mn:     20.0    SiO2:  6.69
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C3-016   Name: ERWIN LAKE                         State: WI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 46-09'50"N    Longitude: 89-26'55"W
Elevation:  518   Surface Temp:  3.1  Stratified: MIXED      Site Depth:   6.1
Lake Area:       6 Watershed Area:     62 WA/LA:    10.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.1   Turbidity:  0.6      Color:   25
Closed pH: 5.91       Equil. pH: 6.20             ANC:   16.0        DOC:  4.30
Closed DIC:  0.50   Equil. DIC:  0.22    Meas. Cond:   8.9   Cal. Cond:   8.2
Ca:   34.9          Mg:   22.2        Na:     5.2          K:   9.7      NH4:  0.0
SO4:   33.3       HCO3:    9.5       Cl:    4.5        NO3:   0.0         F:  0.5
Sum Cations:   73.5  Sum Anions:   47.9  Cations/Anions: 1.53   Tot. P:  15.0
Tot. Al:   22.0   Ext. Al:    6.0    Fe:   40.0      Mn:   10.0    SiO2:  0.17

ID: 2C3-018   Name: BIG GIBSON LAKE                    State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-08'15"N    Longitude: 89-33'15"W
Elevation:  500   Surface Temp:  1.3  Stratified: MIXED      Site Depth:   4.3
Lake Area:      49 Watershed Area:    205 WA/LA:     4.2 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  2.4   Turbidity:  0.8      Color:   30
Closed pH: 7.00       Equil. pH: 7.05             ANC:  155.1        DOC:  8.00
Closed DIC:  1.82   Equil. DIC:  1.39    Meas. Cond:  19.7   Cal. Cond:  21.7
Ca:  122.8          Mg:   65.8        Na:    24.8          K:   8.7      NH4:  3.3
SO4:   38.3       HCO3:  115.9       Cl:    5.9        NO3:   0.3         F:  1.5
Sum Cations:  225.4  Sum Anions:  162.0  Cations/Anions: 1.39   Tot. P:   8.0
Tot. Al:   13.0   Ext. Al:    4.0    Fe:   40.0      Mn:    0.0    SiO2:  0.46

ID: 2C3-020   Name: BOLIN LAKE                         State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-05'07"N    Longitude: 89-51'05"W
Elevation:  490   Surface Temp:  2.3  Stratified: MIXED      Site Depth:  12.2
Lake Area:      27 Watershed Area:    303 WA/LA:    11.2 Hydro Type: DRAINAGE
Residence Time:  1.63   Secchi Depth:  2.3   Turbidity:  0.9      Color:   40
Closed pH: 6.74       Equil. pH: 7.11             ANC:   89.5        DOC:  6.50
Closed DIC:  1.04   Equil. DIC:  0.74    Meas. Cond:  18.3   Cal. Cond:  18.1
Ca:  101.3          Mg:   48.5        Na:    16.1          K:  11.5      NH4:  4.9
SO4:   53.9       HCO3:   52.7       Cl:    7.6        NO3:   1.0         F:  1.1
Sum Cations:  182.6  Sum Anions:  116.4  Cations/Anions: 1.57   Tot. P:   8.0
Tot. Al:   16.0   Ext. Al:    4.0    Fe:  230.0      Mn:    0.0    SiO2:  0.25

ID: 2C3-021   Name: LAKE LAURA                         State: WI  Date: 09OCT84
Sample Type: REGULAR            Latitude: 46-03'30"N    Longitude: 89-26'15"W
Elevation:  520   Surface Temp: 12.9  Stratified: MIXED      Site Depth:  11.0
Lake Area:     255 Watershed Area:    531 WA/LA:     2.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.7   Turbidity:  0.5      Color:    5
Closed pH: 7.66       Equil. pH: 8.07             ANC:  502.0        DOC:  2.30
Closed DIC:  6.05   Equil. DIC:  5.30    Meas. Cond:  57.3   Cal. Cond:  59.4
Ca:  326.8          Mg:  181.0        Na:    39.6          K:  13.0      NH4:  0.6
SO4:   71.8       HCO3:  454.3       Cl:    8.7        NO3:   6.4         F:  2.3
Sum Cations:  561.0  Sum Anions:  545.8  Cations/Anions: 1.03   Tot. P:   2.0
Tot. Al:    5.0   Ext. Al:    1.0    Fe:   10.0      Mn:    0.0    SiO2:  0.28

ID: 2C3-022   Name: BASS LAKE                          State: MI  Date: 25OCT84
Sample Type: REGULAR            Latitude: 46-02'45"N    Longitude: 88-46'15"W
Elevation:  473   Surface Temp:  7.1  Stratified: MIXED      Site Depth:   2.7
Lake Area:      40 Watershed Area:    666 WA/LA:    16.6 Hydro Type: DRAINAGE
Residence Time:  0.26   Secchi Depth:  1.3   Turbidity:  1.0      Color:   45
Closed pH: 7.08       Equil. pH: 7.76             ANC:  298.6        DOC:  7.69
Closed DIC:  3.31   Equil. DIC:  3.05    Meas. Cond:  37.2   Cal. Cond:  44.7
Ca:  208.6          Mg:  148.1        Na:    62.6          K:  14.1      NH4:  6.1
SO4:   58.3       HCO3:  244.5       Cl:   41.8        NO3:  13.9         F:  1.4
Sum Cations:  439.5  Sum Anions:  360.2  Cations/Anions: 1.22   Tot. P:  17.0
Tot. Al:   37.0   Ext. Al:    5.0    Fe:   60.0      Mn:   10.0    SiO2:  4.81
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C3-024   Name: COCHRAM LAKE                 State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 45-57'52"N    Longitude: 90-06'30"W
Elevation:  480   Surface Temp:  2.9  Stratified: MIXED     Site Depth:   3.7
Lake Area:      45 Watershed Area:     104 WA/LA:      2.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.4  Turbidity:   0.3      Color:   15
Closed pH: 7.65       Equil. pH: 8.15              ANC:  482.8        DOC:  3.90
Closed DIC:  5.75   Equil. DIC:  5.46    Meas. Cond:  52.5   Cal. Cond:  54.3
Ca:  297.9          Mg:  182.6        Na:   38.3          K:   6.9      NH4:  0.6
SO4:   49.1       HCO3:  438.5        Cl:    7.6        NO3:   3.1        F:  1.8
Sum Cations:  526.3  Sum Anions:  501.5  Cations/Anions: 1.05   Tot. P:   8.0
Tot. Al:   10.0    Ext. Al:   2.0     Fe:   10.0      Mn:    0.0    SiO2:  0.06


ID: 2C3-025   Name: MIDDLE SUGARBUSH LAKE        State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 46-01'35"N    Longitude: 89-53'45"W
Elevation:  487   Surface Temp:  4.3  Stratified: MIXED     Site Depth:  15.2
Lake Area:     104 Watershed Area:     627 WA/LA:      6.0 Hydro Type: DRAINAGE
Residence Time:  3.26  Secchi Depth:  3.8  Turbidity:   0.8      Color:   25
Closed pH: 7.75       Equil. pH: 8.46              ANC: 1069.0        DOC:  5.00
Closed DIC: 12.54   Equil. DIC: 12.69    Meas. Cond: 109.4   Cal. Cond: 116.4
Ca:  727.5          Mg:  306.0        Na:   67.9          K:  23.5      NH4:  3.9
SO4:   52.9       HCO3: 1009.2        Cl:   21.7        NO3:   0.9        F:  3.6
Sum Cations: 1128.8  Sum Anions: 1095.2  Cations/Anions: 1.03   Tot. P:  11.0
Tot. Al:    9.0    Ext. Al:   1.0     Fe:  220.0      Mn:  120.0    SiO2:  0.05


ID: 2C3-026   Name: ROACH LAKE                   State: WI  Date: 30OCT84
Sample Type: REGULAR            Latitude: 45-57'37"N    Longitude: 89-37'15"W
Elevation:  499   Surface Temp:  9.6  Stratified: MIXED     Site Depth:  14.0
Lake Area:      19 Watershed Area:      62 WA/LA:      3.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.8  Turbidity:   0.6      Color:   15
Closed pH: 6.78       Equil. pH: 7.22              ANC:  102.0        DOC:  2.40
Closed DIC:  1.60   Equil. DIC:  1.30    Meas. Cond:  18.6   Cal. Cond:  19.0
Ca:   91.8          Mg:   46.9        Na:   14.4          K:  10.2      NH4:  1.7
SO4:   57.7       HCO3:   94.9        Cl:    7.1        NO3:   0.0        F:  0.9
Sum Cations:  165.1  Sum Anions:  160.6  Cations/Anions: 1.03   Tot. P:  14.0
Tot. Al:   10.0    Ext. Al:   1.0     Fe:   10.0      Mn:    0.0    SiO2:  0.00


ID: 2C3-027   Name: SPIRIT LAKE                  State: WI  Date: 31OCT84
Sample Type: REGULAR            Latitude: 45-58'00"N    Longitude: 89-12'00"W
Elevation:  504   Surface Temp:  6.5  Stratified: MIXED     Site Depth:   7.0
Lake Area:      30 Watershed Area:      88 WA/LA:      3.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.6  Turbidity:   0.9      Color:   15
Closed pH: 6.15       Equil. pH: 6.39              ANC:   21.0        DOC:  3.30
Closed DIC:  0.46   Equil. DIC:  0.36    Meas. Cond:  14.8   Cal. Cond:  15.3
Ca:   34.9          Mg:   31.3        Na:   27.0          K:  23.0      NH4:  2.2
SO4:   57.0       HCO3:   14.0        Cl:   35.8        NO3:   0.0        F:  1.0
Sum Cations:  119.6  Sum Anions:  107.9  Cations/Anions: 1.11   Tot. P:  18.0
Tot. Al:   27.0    Ext. Al:   2.0     Fe:   10.0      Mn:   10.0    SiO2:  0.07


ID: 2C3-029   Name: GUNLOCK LAKE                 State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 45-54'50"N    Longitude: 89-49'15"W
Elevation:  480   Surface Temp:  3.2  Stratified: MIXED     Site Depth:   4.9
Lake Area:     106 Watershed Area:     347 WA/LA:      3.3 Hydro Type: DRAINAGE
Residence Time:  1.55  Secchi Depth:  2.8  Turbidity:   1.7      Color:   20
Closed pH: 7.58       Equil. pH: 8.33              ANC:  783.5        DOC:  4.00
Closed DIC:  9.31   Equil. DIC:  9.12    Meas. Cond:  87.8   Cal. Cond:  92.7
Ca:  564.4          Mg:  224.6        Na:   81.8          K:  15.1      NH4:  1.7
SO4:   51.4       HCO3:  736.3        Cl:   56.4        NO3:   4.9        F:  2.8
Sum Cations:  887.5  Sum Anions:  855.2  Cations/Anions: 1.04   Tot. P:  24.0
Tot. Al:    9.0    Ext. Al:   1.0     Fe:   40.0      Mn:   10.0    SiO2: 11.60
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C3-030   Name: LITTLE ST GERMAIN LAKE          State: WI  Date: 31OCT84
Sample Type: REGULAR          Latitude: 45-55'35"N    Longitude: 89-27'00"W
Elevation:  492 · Surface Temp:  8.0  Stratified: MIXED      Site Depth:  15.8
Lake Area:     395 Watershed Area:    3429 WA/LA:      8.7 Hydro Type: DRAINAGE
Residence Time:  2.58  Secchi Depth:  2.6   Turbidity:   1.6      Color:   20
Closed pH: 7.40        Equil. pH: 8.03              ANC:  608.0        DOC:  3.40
Closed DIC:  7.69   Equil. DIC:  7.10    Meas. Cond:  70.1   Cal. Cond:  74.6
Ca:  395.2          Mg:  221.3       Na:   77.0         K:  13.8      NH4: 10.5
SO4:    50.0       HCO3:  585.3       Cl:   41.5       NO3:   4.2         F:  2.5
Sum Cations:  717.9  Sum Anions:  685.0  Cations/Anions: 1.05   Tot. P:  23.0
Tot. Al:  805.0   Ext. Al:   0.0    Fe:  300.0     Mn:   90.0    SiO2:  9.45

ID: 2C3-033   Name: COLUMBUS LAKE                   State: WI  Date: 31OCT84
Sample Type: REG/SPC/LTM/     Latitude: 45-50'15"N    Longitude: 89-15'00"W
Elevation:  496   Surface Temp:  6.5  Stratified: MIXED      Site Depth:   6.1
Lake Area:     274 Watershed Area:    7011 WA/LA:     25.6 Hydro Type: DRAINAGE
Residence Time:  0.40  Secchi Depth:  1.1   Turbidity:   4.0      Color:  115
Closed pH: 7.20        Equil. pH: 7.72              ANC:  262.0        DOC: 13.80
Closed DIC:  2.93   Equil. DIC:  2.68    Meas. Cond:  40.7   Cal. Cond:  41.4
Ca:  235.0          Mg:  149.7       Na:   46.5         K:  12.5      NH4:  5.0
SO4:    51.6       HCO3:  214.7       Cl:   21.7       NO3:   5.5         F:  2.3
Sum Cations:  448.9  Sum Anions:  296.1  Cations/Anions: 1.52   Tot. P:  30.0
Tot. Al:   34.0   Ext. Al:   3.0    Fe: 1090.0     Mn:   50.0    SiO2:  7.14

ID: 2C3-034   Name: LOWER KAUBASHINE LAKE           State: WI  Date: 01NOV84
Sample Type: REGULAR          Latitude: 45-48'35"N    Longitude: 89-45'00"W
Elevation:  479   Surface Temp:  7.1  Stratified: MIXED      Site Depth:   8.2
Lake Area:      81 Watershed Area:     458 WA/LA:      5.6 Hydro Type: DRAINAGE
Residence Time:  1.84  Secchi Depth:  3.0   Turbidity:   1.6      Color:   20
Closed pH: 7.61        Equil. pH: 8.37              ANC:  795.0        DOC:  3.20
Closed DIC:  9.57   Equil. DIC:  8.91    Meas. Cond:  90.3   Cal. Cond:  94.4
Ca:  521.0          Mg:  288.7       Na:   91.8         K:  17.1      NH4:  3.3
SO4:    53.9       HCO3:  727.9       Cl:   63.2       NO3:   1.6         F:  3.1
Sum Cations:  922.0  Sum Anions:  853.2  Cations/Anions: 1.08   Tot. P:  12.0
Tot. Al:    4.0   Ext. Al:   2.0    Fe:  140.0     Mn:   20.0    SiO2:  7.87

ID: 2C3-035   Name: DEER LAKE                       State: WI  Date: 31OCT84
Sample Type: REGULAR          Latitude: 45-49'10"N    Longitude: 89-16'45"W
Elevation:  497   Surface Temp:  4.0  Stratified: MIXED      Site Depth:   1.5
Lake Area:      13 Watershed Area:     106 WA/LA:      8.1 Hydro Type: DRAINAGE
Residence Time:  0.26  Secchi Depth:  0.6   Turbidity:   5.7      Color:   95
Closed pH: 7.40        Equil. pH: 8.08              ANC:  593.0        DOC: 12.80
Closed DIC:  6.70   Equil. DIC:  6.38    Meas. Cond:  68.6   Cal. Cond:  72.2
Ca:  382.7          Mg:  273.1       Na:   77.0         K:  17.6      NH4: 15.0
SO4:    56.4       HCO3:  492.5       Cl:   24.5       NO3:   2.0         F:  3.7
Sum Cations:  765.5  Sum Anions:  580.0  Cations/Anions: 1.32   Tot. P:  53.0
Tot. Al:   10.0   Ext. Al:   1.0    Fe: 1280.0     Mn:   50.0    SiO2: 19.40

ID: 2C3-037   Name: BEARSKIN LAKE                   State: WI  Date: 27OCT84
Sample Type: REGULAR          Latitude: 45-44'00"N    Longitude: 89-41'00"W
Elevation:  469   Surface Temp:  8.4  Stratified: MIXED      Site Depth:   6.7
Lake Area:     163 Watershed Area:    1039 WA/LA:      6.4 Hydro Type: DRAINAGE
Residence Time:  1.38  Secchi Depth:  2.3   Turbidity:   2.5      Color:   10
Closed pH: 7.52        Equil. pH: 8.41              ANC:  899.0        DOC:  2.50
Closed DIC: 10.94 · Equil. DIC: 10.34    Meas. Cond:  93.2   Cal. Cond:  97.6
Ca:  563.4          Mg:  301.9       Na:   87.0         K:  19.2      NH4:  0.0
SO4:    27.5       HCO3:  855.6       Cl:   18.1       NO3:   3.2         F:  3.8
Sum Cations:  971.5  Sum Anions:  911.7  Cations/Anions: 1.07   Tot. P:  26.0
Tot. Al:   12.0   Ext. Al:   1.0    Fe:   30.0     Mn:    0.0    SiO2:  3.44
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C3-038   Name: ELM LAKE                         State: WI  Date: 10OCT84
Sample Type: REGULAR          Latitude: 45-46'10"N   Longitude: 89-03'30"W
Elevation:  498   Surface Temp: 12.8  Stratified: MIXED     Site Depth:   4.3
Lake Area:      14 Watershed Area:    596 WA/LA:    42.0 Hydro Type: DRAINAGE
Residence Time:  0.18  Secchi Depth:  0.9   Turbidity:   1.3     Color:  130
Closed pH: 6.47       Equil. pH: 7.09             ANC:  117.5       DOC: 18.35
Closed DIC:  1.71   Equil. DIC:  0.92    Meas. Cond:  27.2   Cal. Cond:  25.1
Ca:  140.0          Mg:  119.7       Na:   25.2       K:   6.6       NH4:   6.7
SO4:   49.4       HCO3:   75.6       Cl:    8.5     NO3:   0.7         F:   1.5
Sum Cations:  298.5  Sum Anions:  135.7  Cations/Anions: 2.20   Tot. P:  18.5
Tot. Al:   56.0   Ext. Al:  26.0    Fe:  680.0      Mn:   40.0    SiO2:  2.95

ID: 2C3-039   Name: TENDERFOOT LAKE                  State: WI  Date: 08NOV84
Sample Type: REGULAR          Latitude: 45-40'20"N   Longitude: 89-15'30"W
Elevation:  480   Surface Temp:  4.3  Stratified: MIXED     Site Depth:   7.3
Lake Area:       9 Watershed Area:     23 WA/LA:     2.5 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  2.6   Turbidity:   1.6     Color:   35
Closed pH: 7.16       Equil. pH: 7.92             ANC:  320.1        DOC:  4.40
Closed DIC:  4.28   Equil. DIC:  3.60    Meas. Cond:  46.0   Cal. Cond:  46.5
Ca:  200.6          Mg:  168.6       Na:   60.9       K:  18.4       NH4:   4.4
SO4:   22.7       HCO3:  274.9       Cl:   86.9     NO3:   0.4         F:   2.2
Sum Cations:  453.0  Sum Anions:  387.5  Cations/Anions: 1.17   Tot. P:  13.0
Tot. Al:    9.0   Ext. Al:   2.0    Fe:  530.0      Mn:    0.0    SiO2:  1.51

ID: 2C3-041   Name: LAKE NOKOMIS                     State: WI  Date: 07NOV84
Sample Type: REGULAR          Latitude: 45-33'15"N   Longitude: 89-44'00"W
Elevation:  446   Surface Temp:  3.4  Stratified: MIXED     Site Depth:   6.1
Lake Area:    1213 Watershed Area: 131209 WA/LA:   108.2 Hydro Type: RESERVOIR
Residence Time:  0.10  Secchi Depth:  1.8   Turbidity:   1.3     Color:   25
Closed pH: 7.57       Equil. pH: 8.16             ANC:  626.5        DOC:  4.00
Closed DIC:  7.36   Equil. DIC:  7.18    Meas. Cond:  73.7   Cal. Cond:  77.5
Ca:  364.8          Mg:  250.9       Na:  109.2       K:  14.6       NH4:   0.0
SO4:   71.4       HCO3:  579.4       Cl:   50.2     NO3:   3.9         F:   3.4
Sum Cations:  739.4  Sum Anions:  710.5  Cations/Anions: 1.04   Tot. P:  20.0
Tot. Al:   30.0   Ext. Al:   0.0    Fe:   60.0      Mn:   10.0    SiO2: 11.50

ID: 2C3-042   Name: WHITEYE LAKE                     State: WI  Date: 08NOV84
Sample Type: REGULAR          Latitude: 45-34'55"N   Longitude: 89-00'00"W
Elevation:  521   Surface Temp:  2.6  Stratified: MIXED     Site Depth:   3.9
Lake Area:      29 Watershed Area:    101 WA/LA:     3.5 Hydro Type: DRAINAGE
Residence Time:  1.19  Secchi Depth:  3.4   Turbidity:   0.5     Color:   15
Closed pH: 5.76       Equil. pH: 6.04             ANC:    7.9        DOC:  3.10
Closed DIC:  0.39   Equil. DIC:  0.30    Meas. Cond:  29.5   Cal. Cond:  29.9
Ca:  101.8          Mg:   64.2       Na:   37.4       K:  18.9       NH4:   0.0
SO4:  169.7       HCO3:    5.3       Cl:   31.3     NO3:   0.4         F:   1.1
Sum Cations:  224.8  Sum Anions:  207.8  Cations/Anions: 1.08   Tot. P:  18.0
Tot. Al:   39.0   Ext. Al:  11.0    Fe:   10.0      Mn:    0.0    SiO2:  0.00

ID: 2C3-043   Name: CLEAR LAKE                       State: WI  Date: 29OCT84
Sample Type: REGULAR          Latitude: 45-32'00"N   Longitude: 89-43'25"W
Elevation:  444   Surface Temp:  9.1  Stratified: MIXED     Site Depth:   9.8
Lake Area:     105 Watershed Area:    231 WA/LA:     2.2 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  2.6   Turbidity:   0.9     Color:    5
Closed pH: 7.47       Equil. pH: 7.96             ANC:  449.5        DOC:  2.10
Closed DIC:  5.40   Equil. DIC:  5.06    Meas. Cond: 112.5   Cal. Cond: 124.2
Ca:  433.6          Mg:  257.5       Na:  341.9       K:  17.4       NH4:   2.2
SO4:  136.6       HCO3:  407.9       Cl:  483.5     NO3:   0.1         F:   1.9
Sum Cations: 1052.7  Sum Anions: 1031.2  Cations/Anions: 1.02   Tot. P:  11.0
Tot. Al:    7.0   Ext. Al:   0.0    Fe:   20.0      Mn:    0.0    SiO2: 11.43
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C3-044   Name: LAKE LUCERNE                      State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 45-31'45"N   Longitude: 88-51'00"W
Elevation:  501   Surface Temp:  7.2  Stratified: MIXED      Site Depth:  20.7
Lake Area:     430 Watershed Area:   2613 WA/LA:      6.1 Hydro Type: DRAINAGE
Residence Time:  4.42  Secchi Depth:  3.4   Turbidity:   0.3      Color:   10
Closed pH: 7.84        Equil. pH: 8.11              ANC:  652.2        DOC:  4.60
Closed DIC:  7.63   Equil. DIC:  8.37    Meas. Cond:  73.3   Cal. Cond:  83.2
Ca:  403.2          Mg:  329.0        Na:   30.4        K:  15.9       NH4:  4.1
SO4:   91.2       HCO3:  668.8        Cl:   17.8       NO3:   0.0          F:  1.3
Sum Cations:  782.6  Sum Anions:  783.6  Cations/Anions: 1.00   Tot. P:  24.0
Tot. Al:     4.0    Ext. Al:    9.0    Fe:     0.0     Mn:     0.0    SiO2:  0.45

ID: 2C3-046   Name: EUGENE LAKE                       State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 45-28'05"N   Longitude: 88-40'00"W
Elevation:  477   Surface Temp:  1.8  Stratified: MIXED      Site Depth:   0.9
Lake Area:       8 Watershed Area:    546 WA/LA:     68.3 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.2   Turbidity:   0.4      Color:   30
Closed pH: 7.36        Equil. pH: 7.91              ANC:  421.4        DOC:  5.60
Closed DIC:  5.14   Equil. DIC:  5.26    Meas. Cond:  44.6   Cal. Cond:  50.5
Ca:  240.0          Mg:  188.4        Na:   34.4        K:  17.9       NH4: 11.3
SO4:   28.7       HCO3:  402.6        Cl:   22.8       NO3:   3.1          F:  1.7
Sum Cations:  492.0  Sum Anions:  460.0  Cations/Anions: 1.07   Tot. P:   9.0
Tot. Al:     5.0    Ext. Al:    4.0    Fe:    30.0     Mn:     0.0    SiO2:  0.78

ID: 2C3-047   Name: HINDU LAKE                        State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 45-22'30"N   Longitude: 88-59'07"W
Elevation:  468   Surface Temp:  4.4  Stratified: MIXED      Site Depth:   6.1
Lake Area:       4 Watershed Area:    155 WA/LA:     36.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.4   Turbidity:   0.5      Color:   20
Closed pH: 6.10        Equil. pH: 6.50              ANC:   24.8        DOC:  5.60
Closed DIC:  0.55   Equil. DIC:  0.24    Meas. Cond:  12.3   Cal. Cond:  14.4
Ca:   46.9          Mg:   30.4        Na:    8.7        K:  25.1       NH4:  2.1
SO4:   70.2       HCO3:   18.7        Cl:    9.9       NO3:   0.0          F:  1.0
Sum Cations:  114.0  Sum Anions:   99.8  Cations/Anions: 1.14   Tot. P:   2.0
Tot. Al:    18.0    Ext. Al:    5.0    Fe:    20.0     Mn:    20.0    SiO2:  0.28

ID: 2C3-049   Name: LITTLE TWIN LAKE                  State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 45-21'40"N   Longitude: 88-54'05"W
Elevation:  463   Surface Temp:  4.2  Stratified: MIXED      Site Depth:   5.5
Lake Area:      10 Watershed Area:    220 WA/LA:     21.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.4   Turbidity:   0.7      Color:   30
Closed pH: 7.40        Equil. pH: 8.08              ANC:  732.5        DOC:  4.90
Closed DIC:  8.88   Equil. DIC:  9.40    Meas. Cond:  85.5   Cal. Cond:  91.9
Ca:  417.7          Mg:  350.4        Na:   52.6        K:  44.7       NH4: 15.8
SO4:   42.1       HCO3:  726.6        Cl:   69.7       NO3:   1.4          F:  1.3
Sum Cations:  881.3  Sum Anions:  843.3  Cations/Anions: 1.05   Tot. P:   3.0
Tot. Al:     0.0    Ext. Al:    2.0    Fe:   130.0     Mn:     0.0    SiO2:  0.58

ID: 2C3-050   Name: SETTING LAKE                      State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 45-15'50"N   Longitude: 88-41'25"W
Elevation:  410   Surface Temp:  3.3  Stratified: MIXED      Site Depth:   3.1
Lake Area:      10 Watershed Area:   1399 WA/LA:    144.2 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.8   Turbidity:   1.5      Color:  120
Closed pH: 7.27        Equil. pH: 8.08              ANC:  804.0        DOC: 18.20
Closed DIC:  9.06   Equil. DIC:  8.88    Meas. Cond:  82.7   Cal. Cond:  88.0
Ca:  441.6          Mg:  372.6        Na:   47.0        K:  43.7       NH4: 18.0
SO4:   16.2       HCO3:  715.4        Cl:   15.8       NO3:   4.1          F:  5.2
Sum Cations:  923.0  Sum Anions:  758.7  Cations/Anions: 1.22   Tot. P:  54.0
Tot. Al:    41.0    Ext. Al:    7.0    Fe:   370.0     Mn:    20.0    SiO2:  6.56
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C3-051   Name: MINNOW LAKE                          State: WI  Date: 31OCT84
Sample Type: REGULAR             Latitude: 45-48'38"N    Longitude: 89-16'31"W
Elevation:  501   Surface Temp:  5.9  Stratified: MIXED      Site Depth:   3.7
Lake Area:       4 Watershed Area:       57 WA/LA:     12.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.6   Turbidity:    4.2      Color:   140
Closed pH: 6.90        Equil. pH: 7.95                ANC:  396.0        DOC: 13.50
Closed DIC:  5.27   Equil. DIC:  3.97    Meas. Cond:  44.9   Cal. Cond:   44.4
Ca:  225.0           Mg:  145.6        Na:    46.5         K:  23.3       NH4:  46.0
SO4:    11.7       HCO3:  314.0        Cl:     9.6       NO3:    1.2          F:   2.3
Sum Cations:  486.6  Sum Anions:   339.0  Cations/Anions: 1.44   Tot. P:  36.0
Tot. Al:    23.0    Ext. Al:    0.0    Fe: 1750.0      Mn:    90.0    SiO2: 14.30

ID: 2C3-052   Name: MUSKESIN LAKE                        State: WI  Date: 07NOV84
Sample Type: REGULAR             Latitude: 46-01'06"N    Longitude: 89-54'48"W
Elevation:  488   Surface Temp:  3.4  Stratified: MIXED      Site Depth:   6.4
Lake Area:      44 Watershed Area:      106 WA/LA:      2.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  5.5   Turbidity:    0.3      Color:    10
Closed pH: 5.87        Equil. pH: 6.23                ANC:   11.1         DOC:  3.50
Closed DIC:  0.44   Equil. DIC:  0.39    Meas. Cond:  16.4   Cal. Cond:   15.8
Ca:   48.9           Mg:   27.1        Na:    31.3         K:  13.3       NH4:   1.1
SO4:    64.3       HCO3:    8.3        Cl:    35.3       NO3:    1.5          F:   0.6
Sum Cations:  123.3  Sum Anions:   110.0  Cations/Anions: 1.12   Tot. P:  13.0
Tot. Al:    35.0    Ext. Al:    5.0    Fe:   10.0      Mn:    30.0    SiO2:  6.48

ID: 2C3-053   Name: INKPOT LAKE                          State: MI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 46-13'44"N    Longitude: 89-30'21"W
Elevation:  505   Surface Temp:  2.9  Stratified: MIXED      Site Depth:   4.6
Lake Area:       7 Watershed Area:       26 WA/LA:      3.8 Hydro Type: DRAINAGE
Residence Time:  1.34   Secchi Depth:  1.4   Turbidity:    2.6      Color:    45
Closed pH: 7.58        Equil. pH: 8.45                ANC:  989.0         DOC:  7.30
Closed DIC: 11.99   Equil. DIC: 11.30    Meas. Cond:  99.2   Cal. Cond:  104.2
Ca:  675.1           Mg:  307.7        Na:    63.5         K:  16.1       NH4:   0.6
SO4:    21.7       HCO3:  906.7        Cl:    10.4       NO3:    1.2          F:   3.0
Sum Cations: 1063.0  Sum Anions:   945.6  Cations/Anions: 1.12   Tot. P:  38.0
Tot. Al:    12.0    Ext. Al:    0.0    Fe:   50.0      Mn:     0.0    SiO2: 10.10

ID: 2C3-054   Name: SILVER LAKE                          State: WI  Date: 05NOV84
Sample Type: REGULAR             Latitude: 45-28'23"N    Longitude: 89-12'07"W
Elevation:  501   Surface Temp:  4.1  Stratified: MIXED      Site Depth:   6.1
Lake Area:       9 Watershed Area:       78 WA/LA:      8.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.3   Turbidity:    0.2      Color:    25
Closed pH: 5.65        Equil. pH: 6.04                ANC:   12.3         DOC:  0.00
Closed DIC:  0.70   Equil. DIC:  0.11    Meas. Cond:  11.4   Cal. Cond:   13.9
Ca:   50.4           Mg:   25.5        Na:     6.1         K:  17.6       NH4:   7.1
SO4:    70.8       HCO3:   10.5        Cl:     6.5       NO3:    4.3          F:   0.7
Sum Cations:  108.1  Sum Anions:    92.8  Cations/Anions: 1.17   Tot. P:   0.0
Tot. Al:    23.0    Ext. Al:    9.0    Fe:   10.0      Mn:    10.0    SiO2:  0.01

ID: 2C3-056   Name: EAGLE LAKE                           State: WI  Date: 31OCT84
Sample Type: REGULAR             Latitude: 45-56'00"N    Longitude: 89-12'30"W
Elevation:  493   Surface Temp:  6.5  Stratified: MIXED      Site Depth:   7.9
Lake Area:     233 Watershed Area:    58384 WA/LA:    250.7 Hydro Type: DRAINAGE
Residence Time:  0.06   Secchi Depth:  1.6   Turbidity:    2.3      Color:    30
Closed pH: 7.36        Equil. pH: 7.97                ANC:  460.0         DOC:  5.80
Closed DIC:  5.56   Equil. DIC:  5.06    Meas. Cond:  61.7   Cal. Cond:   66.4
Ca:  317.4           Mg:  242.7        Na:    68.3         K:  15.3       NH4:   2.8
SO4:    89.9       HCO3:  406.0        Cl:    55.3       NO3:    2.7          F:   2.1
Sum Cations:  646.5  Sum Anions:   556.9  Cations/Anions: 1.16   Tot. P:  87.0
Tot. Al:    13.0    Ext. Al:    0.0    Fe:  120.0      Mn:    10.0    SiO2: 11.40
```

(continued)

TABLE 3-1 (continued)

```
ID: 2C3-057   Name: CRESCENT LAKE                         State: WI  Date: 08OCT84
Sample Type: REGULAR              Latitude: 45-36'08"N    Longitude: 89-31'20"W
Elevation:  479   Surface Temp: 13.4  Stratified: MIXED      Site Depth:   9.4
Lake Area:     253 Watershed Area:     761 WA/LA:     3.0 Hydro Type: DRAINAGE
Residence Time:  3.12  Secchi Depth:  1.9   Turbidity:   2.2     Color:   15
Closed pH: 7.73         Equil. pH: 8.25             ANC:  682.0        DOC:  3.20
Closed DIC:  8.46   Equil. DIC:  7.80    Meas. Cond:  89.1   Cal. Cond:  94.5
Ca:  463.1          Mg:  273.1        Na:  127.0         K:  22.8       NH4:  0.6
SO4:   86.2       HCO3:  632.7       Cl:  114.8        NO3:   3.2         F:  3.1
Sum Cations:  886.5  Sum Anions:  842.7  Cations/Anions: 1.05   Tot. P:  21.0
Tot. Al:     2.0    Ext. Al:   0.0    Fe:   20.0     Mn:     0.0    SiO2: 16.70

ID: 2C3-058   Name: WILD RICE LAKE                        State: WI  Date: 07NOV84
Sample Type: REGULAR              Latitude: 46-03'55"N    Longitude: 89-47'45"W
Elevation:  488   Surface Temp:  1.4  Stratified: MIXED      Site Depth:   4.5
Lake Area:     158 Watershed Area:  16177 WA/LA:   102.5 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  1.9   Turbidity:   3.1     Color:   40
Closed pH: 7.65         Equil. pH: 8.38             ANC:  749.4        DOC:  4.30
Closed DIC:  8.94   Equil. DIC:  8.76    Meas. Cond:  83.1   Cal. Cond:  88.2
Ca:  518.5          Mg:  232.0        Na:   72.6         K:  19.2       NH4:  0.0
SO4:   61.2       HCO3:  700.6       Cl:   46.8        NO3:   0.0         F:  3.5
Sum Cations:  842.3  Sum Anions:  814.9  Cations/Anions: 1.03   Tot. P:  14.0
Tot. Al:    14.0    Ext. Al:   1.0    Fe:  210.0     Mn:     0.0    SiO2:  6.28

ID: 2C3-059   Name: LITTLE PAPOOSE LAKE                   State: WI  Date: 06NOV84
Sample Type: REGULAR              Latitude: 46-11'03"N    Longitude: 89-49'15"W
Elevation:  497   Surface Temp:  3.5  Stratified: MIXED      Site Depth:   7.0
Lake Area:      18 Watershed Area:    1008 WA/LA:    56.3 Hydro Type: DRAINAGE
Residence Time:  0.22  Secchi Depth:  2.1   Turbidity:   0.9     Color:   40
Closed pH: 7.53         Equil. pH: 8.29             ANC: 1001.5        DOC:  6.70
Closed DIC: 11.90   Equil. DIC: 11.77    Meas. Cond: 104.4   Cal. Cond: 114.3
Ca:  686.6          Mg:  270.6        Na:   65.7         K:  19.2       NH4:  5.5
SO4:   55.4       HCO3: 1049.7       Cl:   29.6        NO3:   1.2         F:  2.8
Sum Cations: 1047.6  Sum Anions: 1143.9  Cations/Anions: 0.92   Tot. P:  17.0
Tot. Al:    11.0    Ext. Al:   5.0    Fe:  270.0     Mn:    90.0    SiO2:  7.28

ID: 2C3-060   Name: FANNY LAKE                            State: WI  Date: 05NOV84
Sample Type: REGULAR              Latitude: 45-16'03"N    Longitude: 88-39'58"W
Elevation:  399   Surface Temp:  4.8  Stratified: MIXED      Site Depth:   4.0
Lake Area:       7 Watershed Area:      31 WA/LA:     4.5 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  0.5   Turbidity:   2.2     Color:   30
Closed pH: 6.47         Equil. pH: 6.55             ANC:   39.8        DOC:  8.70
Closed DIC:  0.32   Equil. DIC:  0.37    Meas. Cond:  10.2   Cal. Cond:  11.5
Ca:   52.9          Mg:   32.9        Na:    7.0         K:  13.8       NH4:  7.1
SO4:   38.9       HCO3:   18.9       Cl:    6.8        NO3:   0.3         F:  1.1
Sum Cations:  114.3  Sum Anions:   65.9  Cations/Anions: 1.73   Tot. P:  29.0
Tot. Al:     5.0    Ext. Al:   4.0    Fe:    0.0     Mn:     0.0    SiO2:  0.16

ID: 2D1-001   Name: DEER LAKE                             State: WI  Date: 08NOV84
Sample Type: REGULAR              Latitude: 46-29'43"N    Longitude: 91-42'50"W
Elevation:  344   Surface Temp:  3.2  Stratified: MIXED      Site Depth:   1.5
Lake Area:      19 Watershed Area:     145 WA/LA:     7.8 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.5   Turbidity:   0.8     Color:   37
Closed pH: 5.65         Equil. pH: 5.83             ANC:   11.0        DOC:  6.10
Closed DIC:  0.34   Equil. DIC:  0.28    Meas. Cond:  13.7   Cal. Cond:  12.8
Ca:   42.4          Mg:   32.9        Na:   13.0         K:  12.5       NH4:  0.0
SO4:   61.0       HCO3:    3.9       Cl:    9.0        NO3:   0.9         F:  1.1
Sum Cations:  104.1  Sum Anions:   75.9  Cations/Anions: 1.37   Tot. P:  10.0
Tot. Al:    98.0    Ext. Al:  42.0    Fe:   40.0     Mn:    10.0    SiO2:  0.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D1-004   Name: COFFEE LAKE                        State: WI  Date: 07NOV84
Sample Type: REGULAR              Latitude: 46-27'28"N   Longitude: 91-43'27"W
Elevation:  344   Surface Temp:  3.7  Stratified: MIXED     Site Depth:   7.6
Lake Area:       4 Watershed Area:      70 WA/LA:     16.7 Hydro Type: DRAINAGE
Residence Time:  0.73  Secchi Depth:  0.5   Turbidity:   0.7      Color:  210
Closed pH: 5.38        Equil. pH: 5.63              ANC:    34.0        DOC: 19.00
Closed DIC:  1.17   Equil. DIC:  0.17    Meas. Cond:  20.7   Cal. Cond:   18.9
Ca:   85.3          Mg:    55.1        Na:    20.4        K:  14.1       NH4: 10.0
SO4:    56.8       HCO3:     9.6      Cl:    21.4      NO3:    3.7          F:  1.3
Sum Cations:  188.4  Sum Anions:    92.8  Cations/Anions: 2.03   Tot. P:   29.0
Tot. Al:  399.0    Ext. Al: 181.0     Fe:   950.0     Mn:    60.0    SiO2:  4.11

ID: 2D1-007   Name: SMITH LAKE                         State: WI  Date: 08NOV84
Sample Type: REGULAR              Latitude: 46-23'53"N   Longitude: 91-42'30"W
Elevation:  337   Surface Temp:  3.9  Stratified: MIXED     Site Depth:   1.2
Lake Area:      14 Watershed Area:     181 WA/LA:     13.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.0   Turbidity:   0.9      Color:   41
Closed pH: 6.38        Equil. pH: 7.12              ANC:    73.5        DOC:  9.55
Closed DIC:  1.17   Equil. DIC:  0.75    Meas. Cond:  18.6   Cal. Cond:   18.0
Ca:   66.9          Mg:    81.4        Na:    19.8        K:   5.1       NH4:  0.0
SO4:   62.9        HCO3:    51.1      Cl:     9.9      NO3:    0.1          F:  1.1
Sum Cations:  173.7  Sum Anions:  125.0  Cations/Anions: 1.39   Tot. P:   17.5
Tot. Al:   27.0    Ext. Al:    7.5    Fe:    40.0     Mn:     0.0    SiO2:  0.65

ID: 2D1-009   Name: (NO NAME)                          State: WI  Date: 12NOV84
Sample Type: REGULAR              Latitude: 46-22'38"N   Longitude: 91-36'25"W
Elevation:  351   Surface Temp:  3.2  Stratified: MIXED     Site Depth:   1.6
Lake Area:       4 Watershed Area:     106 WA/LA:     25.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.6   Turbidity:   0.9      Color:   55
Closed pH: 6.54        Equil. pH: 7.46              ANC:   171.9        DOC:  6.70
Closed DIC:  3.08   Equil. DIC:  1.54    Meas. Cond:  23.3   Cal. Cond:   22.8
Ca:   99.8          Mg:    66.6        Na:    24.4        K:  42.2       NH4:  1.7
SO4:   24.8        HCO3:   132.2      Cl:    11.3      NO3:    0.0          F:  1.2
Sum Cations:  234.8  Sum Anions:  169.6  Cations/Anions: 1.38   Tot. P:   10.0
Tot. Al:   22.0    Ext. Al:    7.0    Fe:    70.0     Mn:    10.0    SiO2:  0.88

ID: 2D1-010   Name: HIGH LIFE LAKE                     State: WI  Date: 13NOV84
Sample Type: REGULAR              Latitude: 46-22'27"N   Longitude: 91-34'40"W
Elevation:  351   Surface Temp:  3.8  Stratified: MIXED     Site Depth:   1.2
Lake Area:       8 Watershed Area:      31 WA/LA:      3.9 Hydro Type: DRAINAGE
Residence Time:  0.35  Secchi Depth:  1.2   Turbidity:   1.1      Color:   35
Closed pH: 7.38        Equil. pH: 7.69              ANC:   244.2        DOC:  5.00
Closed DIC:  2.80   Equil. DIC:  2.54    Meas. Cond:  34.7   Cal. Cond:   35.7
Ca:  159.7          Mg:   116.0        Na:    48.3        K:  13.0       NH4:  1.1
SO4:   69.5        HCO3:   215.0      Cl:    18.1      NO3:    0.0          F:  1.7
Sum Cations:  338.1  Sum Anions:  304.6  Cations/Anions: 1.11   Tot. P:   22.0
Tot. Al:    8.0    Ext. Al:    3.0    Fe:   240.0     Mn:    10.0    SiO2:  3.81

ID: 2D1-012   Name: MUSKRAT LAKE                       State: WI  Date: 12NOV84
Sample Type: REGULAR              Latitude: 46-20'45"N   Longitude: 91-45'15"W
Elevation:  331   Surface Temp:  2.7  Stratified: MIXED     Site Depth:   1.5
Lake Area:       9 Watershed Area:     135 WA/LA:     14.4 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  0.6   Turbidity:   1.1      Color:   70
Closed pH: 6.76        Equil. pH: 7.39              ANC:   150.0        DOC:  7.50
Closed DIC:  1.98   Equil. DIC:  1.22    Meas. Cond:  24.3   Cal. Cond:   19.5
Ca:  104.3          Mg:    63.3        Na:    28.7        K:   5.9       NH4:  1.1
SO4:   22.1        HCO3:   122.2      Cl:     8.2      NO3:    0.4          F:  1.2
Sum Cations:  203.5  Sum Anions:  154.1  Cations/Anions: 1.32   Tot. P:    2.0
Tot. Al:   21.0    Ext. Al:    5.0    Fe:   320.0     Mn:     0.0    SiO2:  3.73
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D1-014   Name: TWIN LAKES (SOUTHWEST)         State: WI  Date: 08NOV84
Sample Type: REGULAR           Latitude: 46-20'45"N   Longitude: 91-44'20"W
Elevation:  333   Surface Temp:  4.0  Stratified: MIXED     Site Depth:   1.2
Lake Area:      28 Watershed Area:    104 WA/LA:      3.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.2   Turbidity:   0.8     Color:    14
Closed pH: 7.18       Equil. pH: 7.58              ANC:  131.5        DOC:  6.10
Closed DIC:  1.86   Equil. DIC:  1.80    Meas. Cond:  23.9   Cal. Cond:  23.4
Ca:  112.8           Mg:   74.0       Na:   27.4          K:   9.5      NH4:  0.0
SO4:   44.6       HCO3:  139.8       Cl:    9.3       NO3:   0.6         F:  1.2
Sum Cations:  223.8  Sum Anions:  195.6  Cations/Anions: 1.14   Tot. P:  13.0
Tot. Al:    6.0    Ext. Al:    1.0    Fe:   20.0      Mn:    0.0    SiO2:  1.81

ID: 2D1-017   Name: METZGER LAKE                   State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 46-19'08"N   Longitude: 91-41'17"W
Elevation:  333   Surface Temp:  4.7  Stratified: MIXED     Site Depth:   7.3
Lake Area:       5 Watershed Area:     62 WA/LA:     11.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.8   Turbidity:   0.6     Color:    15
Closed pH: 6.84       Equil. pH: 7.25              ANC:  119.5        DOC:  3.45
Closed DIC:  1.63   Equil. DIC:  1.67    Meas. Cond:  16.6   Cal. Cond:  21.2
Ca:   91.3           Mg:   58.4       Na:   28.5          K:   9.6      NH4:  0.6
SO4:   55.5       HCO3:  116.1       Cl:    9.6       NO3:   0.0         F:  1.2
Sum Cations:  188.5  Sum Anions:  182.5  Cations/Anions: 1.03   Tot. P:  16.0
Tot. Al:   12.0    Ext. Al:    3.0    Fe:   30.0      Mn:   10.0    SiO2:  0.82

ID: 2D1-018   Name: ROCK LAKE                      State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 46-20'35"N   Longitude: 91-37'00"W
Elevation:  352   Surface Temp:  2.4  Stratified: MIXED     Site Depth:   3.0
Lake Area:      11 Watershed Area:     47 WA/LA:      4.1 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  1.1   Turbidity:   1.1     Color:   140
Closed pH: 5.46       Equil. pH: 5.62              ANC:   36.2        DOC: 12.90
Closed DIC:  0.58   Equil. DIC:  0.00    Meas. Cond:  13.7   Cal. Cond:  13.5
Ca:   54.4           Mg:   41.1       Na:   20.4          K:  13.3      NH4:  5.2
SO4:   34.4       HCO3:    5.1       Cl:   11.3       NO3:   7.2         F:  1.1
Sum Cations:  138.1  Sum Anions:   59.0  Cations/Anions: 2.34   Tot. P:  19.0
Tot. Al:  143.0    Ext. Al:   67.0    Fe:  460.0      Mn:   30.0    SiO2:  1.96

ID: 2D1-020   Name: (NO NAME)                      State: WI  Date: 12NOV84
Sample Type: REGULAR           Latitude: 46-22'05"N   Longitude: 91-36'55"W
Elevation:  344   Surface Temp:  3.2  Stratified: MIXED     Site Depth:   1.2
Lake Area:       6 Watershed Area:     21 WA/LA:      3.8 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:   *    Turbidity:   1.0     Color:    55
Closed pH: 6.60       Equil. pH: 7.27              ANC:  112.1        DOC:  6.70
Closed DIC:  1.85   Equil. DIC:  1.00    Meas. Cond:  19.4   Cal. Cond:  20.3
Ca:   73.9           Mg:   58.4       Na:   34.4          K:  21.7      NH4:  1.7
SO4:   55.0       HCO3:   91.0       Cl:    9.9       NO3:   0.1         F:  1.2
Sum Cations:  190.2  Sum Anions:  157.2  Cations/Anions: 1.21   Tot. P:  18.0
Tot. Al:   16.0    Ext. Al:    5.0    Fe:  340.0      Mn:   10.0    SiO2:  2.91

ID: 2D1-022   Name: BLACK FOX LAKE                 State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 46-21'45"N   Longitude: 91-36'38"W
Elevation:  351   Surface Temp:  2.6  Stratified: MIXED     Site Depth:   1.8
Lake Area:      16 Watershed Area:     52 WA/LA:      3.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.6   Turbidity:   1.0     Color:    37
Closed pH: 7.18       Equil. pH: 7.49              ANC:  288.1        DOC:  5.80
Closed DIC:  3.45   Equil. DIC:  3.64    Meas. Cond:  30.5   Cal. Cond:  32.6
Ca:  144.7           Mg:  116.8       Na:   38.7          K:  12.5      NH4:  0.6
SO4:   32.7       HCO3:  261.7       Cl:    7.1       NO3:   0.0         F:  1.5
Sum Cations:  313.4  Sum Anions:  303.4  Cations/Anions: 1.03   Tot. P:  19.0
Tot. Al:   11.0    Ext. Al:    2.0    Fe:  220.0      Mn:   10.0    SiO2:  1.86
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D1-025   Name: BEAUREGARD LAKE                    State: WI  Date: 07NOV84
Sample Type: REGULAR             Latitude: 46'20'30"N    Longitude: 91-35'30"W
Elevation:  366   Surface Temp:  3.3  Stratified: MIXED      Site Depth:   4.8
Lake Area:      35 Watershed Area:     166 WA/LA:      4.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.0   Turbidity:   1.1      Color:   26
Closed pH: 6.36       Equil. pH: 6.85               ANC:   47.0        DOC:  5.10
Closed DIC:  0.74   Equil. DIC:  0.47     Meas. Cond:  18.1   Cal. Cond:  17.0
Ca:   59.1          Mg:    53.1         Na:   23.7          K:  14.7      NH4:  0.3
SO4:   68.9       HCO3:    32.8        Cl:    14.0        NO3:    1.2         F:  1.1
Sum Cations:  151.3  Sum Anions:   118.0  Cations/Anions: 1.28   Tot. P:  15.0
Tot. Al:    38.5    Ext. Al:    5.0     Fe:    20.0      Mn:     0.0    SiO2:  0.29
```

```
ID: 2D1-026   Name: MIRROR LAKE                        State: WI  Date: 13NOV84
Sample Type: REGULAR             Latitude: 46-21'25"N    Longitude: 91-34'45"W
Elevation:  357   Surface Temp:  3.9  Stratified: MIXED      Site Depth:   1.6
Lake Area:      10 Watershed Area:      73 WA/LA:      7.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.6   Turbidity:   0.7      Color:   60
Closed pH: 5.55       Equil. pH: 5.86               ANC:   27.2        DOC:  9.90
Closed DIC:  0.74   Equil. DIC:  0.07     Meas. Cond:  12.1   Cal. Cond:  12.1
Ca:   44.9          Mg:    42.0         Na:   14.8          K:  10.5      NH4:  1.9
SO4:   49.6       HCO3:     6.5        Cl:     4.8        NO3:    1.0         F:  0.8
Sum Cations:  116.5  Sum Anions:    62.6  Cations/Anions: 1.86   Tot. P:  10.0
Tot. Al:    64.5    Ext. Al:   35.5     Fe:   105.0      Mn:    30.0    SiO2:  0.19
```

```
ID: 2D1-030   Name: BASS LAKE                          State: WI  Date: 06NOV84
Sample Type: REGULAR             Latitude: 46-13'00"N    Longitude: 91-51'15"W
Elevation:  316   Surface Temp:  3.5  Stratified: MIXED      Site Depth:   5.4
Lake Area:      51 Watershed Area:     109 WA/LA:      2.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.8   Turbidity:   0.9      Color:   13
Closed pH: 6.72       Equil. pH: 6.91               ANC:   49.0        DOC:  3.95
Closed DIC:  0.68   Equil. DIC:  0.61     Meas. Cond:  18.1   Cal. Cond:  17.9
Ca:   74.1          Mg:    44.4         Na:   22.8          K:  10.0      NH4:  0.0
SO4:   80.3       HCO3:    40.4        Cl:    11.1        NO3:    0.0         F:  1.2
Sum Cations:  151.6  Sum Anions:   133.0  Cations/Anions: 1.14   Tot. P:  17.5
Tot. Al:    19.0    Ext. Al:    0.0     Fe:     5.0      Mn:     0.0    SiO2:  0.01
```

```
ID: 2D1-037   Name: HALFWAY LAKE                       State: WI  Date: 06NOV84
Sample Type: REGULAR             Latitude: 46-13'00"N    Longitude: 91-48'15"W
Elevation:  319   Surface Temp:  4.5  Stratified: MIXED      Site Depth:   5.5
Lake Area:      39 Watershed Area:     101 WA/LA:      2.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.3   Turbidity:   0.6      Color:   13
Closed pH: 6.69       Equil. pH: 6.99               ANC:   53.0        DOC:  5.10
Closed DIC:  0.78   Equil. DIC:  0.66     Meas. Cond:  22.0   Cal. Cond:  21.6
Ca:   80.3          Mg:    49.4         Na:   41.3          K:   9.5      NH4:  1.1
SO4:   79.1       HCO3:    47.8        Cl:    35.8        NO3:    0.3         F:  1.2
Sum Cations:  181.8  Sum Anions:   164.2  Cations/Anions: 1.11   Tot. P:  13.0
Tot. Al:    13.0    Ext. Al:    2.0     Fe:     0.0      Mn:     0.0    SiO2:  0.00
```

```
ID: 2D1-038   Name: (NO NAME)                          State: WI  Date: 06NOV84
Sample Type: REGULAR             Latitude: 46-14'10"N    Longitude: 91-46'52"W
Elevation:  319   Surface Temp:  3.4  Stratified: MIXED      Site Depth:   0.9
Lake Area:      24 Watershed Area:   15820 WA/LA:    659.2 Hydro Type: RESERVOIR
Residence Time:  0.00  Secchi Depth:  0.9   Turbidity:   1.0      Color:   13
Closed pH: 7.98       Equil. pH: 8.46               ANC: 1136.0        DOC:  1.90
Closed DIC: 12.27   Equil. DIC: 12.26     Meas. Cond: 114.6   Cal. Cond: 120.9
Ca:  742.0          Mg:   329.0         Na:   80.5          K:  11.3      NH4:  1.1
SO4:   82.7       HCO3:  1009.1        Cl:    25.1        NO3:    4.9         F:  2.4
Sum Cations: 1163.9  Sum Anions:  1131.5  Cations/Anions: 1.03   Tot. P:  14.0
Tot. Al:    37.0    Ext. Al:    1.0     Fe:    70.0      Mn:     0.0    SiO2: 10.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D1-041   Name: MULLIGAN LAKE                        State: WI  Date: 12NOV84
Sample Type: REGULAR            Latitude: 46-12'30"N    Longitude: 91-41'40"W
Elevation:  327   Surface Temp:  2.6  Stratified: MIXED     Site Depth:   1.0
Lake Area:     30 Watershed Area:    251 WA/LA:      8.4 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  0.8   Turbidity:   3.1     Color:  120
Closed pH: 7.18       Equil. pH: 7.89            ANC:  401.7          DOC:  8.20
Closed DIC:  5.03   Equil. DIC:  4.78    Meas. Cond:  47.4   Cal. Cond:  49.8
Ca:  232.5          Mg:  144.0      Na:   73.1         K:  19.2       NH4:  1.7
SO4:   45.0       HCO3:  399.2      Cl:   20.6       NO3:   0.6         F:  1.9
Sum Cations:  470.4  Sum Anions:  468.8  Cations/Anions: 1.00   Tot. P:  18.0
Tot. Al:   20.0    Ext. Al:   5.0    Fe:  670.0       Mn:    10.0    SiO2: 10.85

ID: 2D1-042   Name: HAUGEN LAKE                          State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 46-13'22"N    Longitude: 91-39'55"W
Elevation:  335   Surface Temp:  4.6  Stratified: MIXED     Site Depth:   7.0
Lake Area:     11 Watershed Area:     70 WA/LA:      6.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.9   Turbidity:   0.5     Color:   15
Closed pH: 6.55       Equil. pH: 7.16            ANC:   54.0          DOC:  4.50
Closed DIC:  0.87   Equil. DIC:  0.62    Meas. Cond:  16.1   Cal. Cond:  14.9
Ca:   70.9          Mg:   37.8      Na:   17.4         K:   7.7       NH4:  1.7
SO4:   56.4       HCO3:   43.3      Cl:    6.8       NO3:   0.0         F:  0.9
Sum Cations:  135.8  Sum Anions:  107.4  Cations/Anions: 1.26   Tot. P:  10.0
Tot. Al:   10.0    Ext. Al:   2.0    Fe:   20.0       Mn:     0.0    SiO2:  0.43

ID: 2D1-043   Name: THORN LAKE                           State: WI  Date: 12NOV84
Sample Type: REGULAR            Latitude: 46-13'30"N    Longitude: 91-39'20"W
Elevation:  336   Surface Temp:  3.7  Stratified: MIXED     Site Depth:   2.4
Lake Area:     14 Watershed Area:    109 WA/LA:      8.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.1   Turbidity:   0.3     Color:   30
Closed pH: 6.14       Equil. pH: 6.81            ANC:   46.4          DOC:  6.80
Closed DIC:  1.09   Equil. DIC:  0.52    Meas. Cond:  11.8   Cal. Cond:  11.2
Ca:   57.1          Mg:   30.8      Na:   10.0         K:   5.2       NH4:  1.9
SO4:   36.2       HCO3:   34.2      Cl:    5.6       NO3:   1.1         F:  0.9
Sum Cations:  105.7  Sum Anions:   78.1  Cations/Anions: 1.35   Tot. P:   6.0
Tot. Al:   18.5    Ext. Al:   9.0    Fe:   80.0       Mn:    10.0    SiO2:  0.85

ID: 2D1-045   Name: CROOKED LAKE                         State: WI  Date: 12NOV84
Sample Type: REGULAR            Latitude: 46-12'00"N    Longitude: 91-39'00"W
Elevation:  334   Surface Temp:  2.9  Stratified: MIXED     Site Depth:   2.4
Lake Area:     13 Watershed Area:    280 WA/LA:     21.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.9   Turbidity:   0.9     Color:  130
Closed pH: 6.23       Equil. pH: 6.95            ANC:  108.0          DOC: 13.50
Closed DIC:  1.44   Equil. DIC:  0.71    Meas. Cond:  18.7   Cal. Cond:  16.5
Ca:   89.3          Mg:   55.9      Na:   14.8         K:  11.3       NH4: 23.3
SO4:   25.4       HCO3:   46.0      Cl:    7.1       NO3:   1.8         F:  1.1
Sum Cations:  195.0  Sum Anions:   81.3  Cations/Anions: 2.40   Tot. P:   6.0
Tot. Al:   91.0    Ext. Al:  23.0    Fe:  710.0       Mn:    10.0    SiO2:  3.70

ID: 2D1-047   Name: SULLIVAN LAKE                        State: WI  Date: 13NOV84
Sample Type: REGULAR            Latitude: 46-11'15"N    Longitude: 91-46'30"W
Elevation:  325   Surface Temp:  4.0  Stratified: MIXED     Site Depth:   1.4
Lake Area:     33 Watershed Area:    194 WA/LA:      5.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.4   Turbidity:   0.7     Color:   25
Closed pH: 6.56       Equil. pH: 6.91            ANC:   58.4          DOC:  6.80
Closed DIC:  0.71   Equil. DIC:  0.46    Meas. Cond:  18.4   Cal. Cond:  20.0
Ca:   95.8          Mg:   49.4      Na:   14.4         K:   9.5       NH4:  1.6
SO4:   85.2       HCO3:   52.1      Cl:    9.9       NO3:   1.2         F:  1.2
Sum Cations:  171.0  Sum Anions:  149.6  Cations/Anions: 1.14   Tot. P:  12.0
Tot. Al:   16.0    Ext. Al:   5.0    Fe:   10.0       Mn:     0.0    SiO2:  0.04
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D1-048   Name: CHAIN LAKES (NORTHWEST)          State: WI  Date: 12NOV84
Sample Type: REGULAR            Latitude: 46-11'55"N   Longitude: 91-44'20"W
Elevation:  328   Surface Temp:  3.0  Stratified: MIXED      Site Depth:   1.3
Lake Area:      31 Watershed Area:     580 WA/LA:     18.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.3  Turbidity:   0.5     Color:   70
Closed pH: 5.69       Equil. pH: 6.00            ANC:   33.2        DOC: 10.70
Closed DIC:  0.65   Equil. DIC:  0.06   Meas. Cond:   9.8  Cal. Cond:   9.2
Ca:   44.9         Mg:   29.6       Na:     9.6        K:   8.9      NH4:  5.0
SO4:   23.3      HCO3:    7.0       Cl:     6.5      NO3:   2.7        F:  1.0
Sum Cations:   99.6  Sum Anions:    40.4  Cations/Anions: 2.46   Tot. P:   5.0
Tot. Al:    61.0    Ext. Al:  17.0    Fe:  370.0     Mn:   20.0    SiO2:  1.92

ID: 2D1-049   Name: (NO NAME)                        State: WI  Date: 12NOV84
Sample Type: REGULAR            Latitude: 46-11'02"N   Longitude: 91-42'20"W
Elevation:  327   Surface Temp:  3.0  Stratified: MIXED      Site Depth:   1.6
Lake Area:       8 Watershed Area:      85 WA/LA:     11.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.6  Turbidity:   0.7     Color:   30
Closed pH: 5.97       Equil. pH: 6.17            ANC:   26.4        DOC:  6.40
Closed DIC:  0.36   Equil. DIC:  0.33   Meas. Cond:  10.5  Cal. Cond:  10.4
Ca:   51.9         Mg:   25.5       Na:     7.0        K:   9.7      NH4:  1.7
SO4:   40.6      HCO3:   11.1       Cl:     5.6      NO3:   1.2        F:  1.1
Sum Cations:   97.2  Sum Anions:    59.6  Cations/Anions: 1.63   Tot. P:  16.0
Tot. Al:    19.0    Ext. Al:  15.0    Fe:   50.0     Mn:   10.0    SiO2:  0.16

ID: 2D1-050   Name: SNAKE LAKE                       State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 46-11'43"N   Longitude: 91-40'05"W
Elevation:  329   Surface Temp:  4.9  Stratified: MIXED      Site Depth:  10.4
Lake Area:      36 Watershed Area:     254 WA/LA:      7.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.1  Turbidity:   4.1     Color:   48
Closed pH: 7.16       Equil. pH: 7.94            ANC:  359.0        DOC:  4.50
Closed DIC:  4.54   Equil. DIC:  4.00   Meas. Cond:  42.4  Cal. Cond:  42.6
Ca:  237.0         Mg:  132.4       Na:    14.8        K:   8.7      NH4:  3.3
SO4:   32.7      HCO3:  334.3       Cl:     7.9      NO3:   0.9        F:  1.6
Sum Cations:  426.4  Sum Anions:   378.0  Cations/Anions: 1.13   Tot. P:  12.0
Tot. Al:     4.0    Ext. Al:   1.0    Fe:  580.0     Mn:    0.0    SiO2:  7.34

ID: 2D1-052   Name: ISLAND LAKE                      State: WI  Date: 05NOV84
Sample Type: REGULAR            Latitude: 46-21'12"N   Longitude: 91-46'04"W
Elevation:  328   Surface Temp:  2.9  Stratified: MIXED      Site Depth:   2.8
Lake Area:      19 Watershed Area:     129 WA/LA:      7.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.8  Turbidity:   0.4     Color:   20
Closed pH: 6.89       Equil. pH: 7.13            ANC:   85.6        DOC:  4.50
Closed DIC:  1.08   Equil. DIC:  1.17   Meas. Cond:  16.4  Cal. Cond:  19.0
Ca:   86.3         Mg:   51.0       Na:    23.1        K:   8.7      NH4:  1.8
SO4:   66.0      HCO3:   70.7       Cl:     8.5      NO3:   0.0        F:  1.2
Sum Cations:  171.1  Sum Anions:   146.4  Cations/Anions: 1.17   Tot. P:   1.0
Tot. Al:     6.0    Ext. Al:   1.0    Fe:    0.0     Mn:    0.0    SiO2:  2.21

ID: 2D1-055   Name: DEER PRINT LAKE                  State: WI  Date: 05NOV84
Sample Type: REGULAR            Latitude: 46-21'35"N   Longitude: 91-37'09"W
Elevation:  344   Surface Temp:  2.5  Stratified: MIXED      Site Depth:   2.7
Lake Area:       8 Watershed Area:      36 WA/LA:      4.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.6  Turbidity:   0.7     Color:   26
Closed pH: 6.66       Equil. pH: 6.81            ANC:   65.5        DOC:  4.70
Closed DIC:  0.87   Equil. DIC:  0.92   Meas. Cond:  12.9  Cal. Cond:  16.6
Ca:   62.9         Mg:   55.9       Na:    17.4        K:   9.2      NH4:  0.2
SO4:   55.2      HCO3:   73.3       Cl:     7.1      NO3:   0.0        F:  1.2
Sum Cations:  145.9  Sum Anions:   136.7  Cations/Anions: 1.07   Tot. P:   5.0
Tot. Al:    13.0    Ext. Al:   3.0    Fe:   10.0     Mn:   10.0    SiO2:  0.45
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D1-056   Name: BLUEGILL LAKE                     State: WI  Date: 06NOV84
Sample Type: REGULAR           Latitude: 46-12'40"N   Longitude: 91-51'38"W
Elevation:  315   Surface Temp:  5.8  Stratified: MIXED     Site Depth:  23.2
Lake Area:       8 Watershed Area:     34 WA/LA:      4.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.4   Turbidity:   0.6     Color:   20
Closed pH: 6.29      Equil. pH: 7.21            ANC:   72.0        DOC:  3.30
Closed DIC:  2.09  Equil. DIC:  0.92    Meas. Cond:  16.4   Cal. Cond:  16.2
Ca:   62.9         Mg:    39.5       Na:    22.2       K:  10.7       NH4:  5.0
SO4:   46.0      HCO3:   78.2      Cl:     9.6      NO3:   0.2          F:  0.9
Sum Cations:  140.7  Sum Anions:  135.0  Cations/Anions: 1.04   Tot. P:  12.0
Tot. Al:   13.0    Ext. Al:   0.0     Fe:  160.0      Mn:   30.0    SiO2:  0.08
```

```
ID: 2D1-061   Name: GANDER LAKE                       State: WI  Date: 07NOV84
Sample Type: REGULAR           Latitude: 46-27'15"N   Longitude: 91-43'45"W
Elevation:  344   Surface Temp:  3.3  Stratified: MIXED     Site Depth:   7.9
Lake Area:      21 Watershed Area:    236 WA/LA:     11.5 Hydro Type: DRAINAGE
Residence Time:  1.04  Secchi Depth:  0.9   Turbidity:   5.6     Color:  120
Closed pH: 7.18      Equil. pH: 7.94            ANC:  379.0        DOC: 11.60
Closed DIC:  4.39  Equil. DIC:  3.93    Meas. Cond:  48.0   Cal. Cond:  48.0
Ca:  324.8         Mg:   136.6       Na:    32.6       K:  13.8       NH4:  5.0
SO4:   39.3      HCO3:  319.2      Cl:     7.9      NO3:   4.0          F:  1.8
Sum Cations:  512.9  Sum Anions:  372.8  Cations/Anions: 1.38   Tot. P:  21.0
Tot. Al:   75.0    Ext. Al:   6.0     Fe: 1120.0      Mn:   70.0    SiO2:  4.81
```

```
ID: 2D1-063   Name: BOOT LAKE                         State: WI  Date: 05NOV84
Sample Type: REGULAR           Latitude: 46-20'18"N   Longitude: 91-37'48"W
Elevation:  347   Surface Temp:  2.7  Stratified: MIXED     Site Depth:   1.8
Lake Area:       9 Watershed Area:    109 WA/LA:     12.4 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.8   Turbidity:   0.5     Color:   38
Closed pH: 6.74      Equil. pH: 7.20            ANC:  145.0        DOC:  5.70
Closed DIC:  2.06  Equil. DIC:  1.87    Meas. Cond:  17.7   Cal. Cond:  21.1
Ca:   91.3         Mg:    62.5       Na:    29.6       K:  17.9       NH4:  1.6
SO4:   29.6      HCO3:  138.7      Cl:     9.6      NO3:   1.0          F:  1.3
Sum Cations:  203.1  Sum Anions:  180.3  Cations/Anions: 1.13   Tot. P:  18.0
Tot. Al:   10.0    Ext. Al:   3.0     Fe:  100.0      Mn:   10.0    SiO2:  2.46
```

```
ID: 2D1-065   Name: LUND LAKE                         State: WI  Date: 07NOV84
Sample Type: REGULAR           Latitude: 46-19'05"N   Longitude: 91-34'45"W
Elevation:  355   Surface Temp:  3.9  Stratified: MIXED     Site Depth:   8.8
Lake Area:      23 Watershed Area:    119 WA/LA:      5.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.7   Turbidity:   0.8     Color:   47
Closed pH: 6.33      Equil. pH: 6.91            ANC:   62.0        DOC:  6.40
Closed DIC:  1.02  Equil. DIC:  0.53    Meas. Cond:  16.1   Cal. Cond:  14.9
Ca:   67.9         Mg:    49.4       Na:    16.1       K:  11.0       NH4:  1.1
SO4:   48.9      HCO3:   41.0      Cl:     7.1      NO3:   0.7          F:  0.9
Sum Cations:  145.9  Sum Anions:   98.6  Cations/Anions: 1.48   Tot. P:  14.0
Tot. Al:   59.0    Ext. Al:  13.0     Fe:  290.0      Mn:   10.0    SiO2:  0.30
```

```
ID: 2D1-067   Name: BEGLINGER LAKE                    State: WI  Date: 06NOV84
Sample Type: REGULAR           Latitude: 46-13'13"N   Longitude: 91-50'54"W
Elevation:  315   Surface Temp:  3.3  Stratified: MIXED     Site Depth:   5.4
Lake Area:       8 Watershed Area:     39 WA/LA:      4.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.0   Turbidity:   0.6     Color:   27
Closed pH: 6.28      Equil. pH: 7.00            ANC:   46.0        DOC:  5.10
Closed DIC:  1.11  Equil. DIC:  0.61    Meas. Cond:  12.8   Cal. Cond:  12.1
Ca:   59.4         Mg:    38.7       Na:     8.7       K:   2.3       NH4:  0.6
SO4:   37.9      HCO3:   42.9      Cl:     9.0      NO3:   0.0          F:  0.8
Sum Cations:  110.1  Sum Anions:   90.6  Cations/Anions: 1.21   Tot. P:  13.0
Tot. Al:   20.0    Ext. Al:   1.0     Fe:   90.0      Mn:   10.0    SiO2:  0.02
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D1-068   Name: (NO NAME)                          State: WI  Date: 08NOV84
Sample Type: REGULAR            Latitude: 46-15'14"N    Longitude: 91-40'09"W
Elevation:  332   Surface Temp:  3.8  Stratified: MIXED     Site Depth:   3.7
Lake Area:       6 Watershed Area:      23 WA/LA:      4.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.7   Turbidity:   0.8     Color:   25
Closed pH: 6.77      Equil. pH: 7.15              ANC:   72.0         DOC:  5.90
Closed DIC:  0.80  Equil. DIC:  1.02    Meas. Cond:  14.2   Cal. Cond:  13.0
Ca:   71.4         Mg:   37.8       Na:   10.9        K:   7.7       NH4:  1.7
SO4:   33.9      HCO3:   47.9      Cl:    7.1       NO3:   0.0         F:  1.1
Sum Cations:  129.7  Sum Anions:   90.0  Cations/Anions: 1.44   Tot. P:  16.0
Tot. Al:   14.0    Ext. Al:   2.0    Fe:   40.0     Mn:    0.0    SiO2:  0.07

ID: 2D1-072   Name: ALEXANDER LAKE                     State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 46-13'06"N    Longitude: 91-40'50"W
Elevation:  331   Surface Temp:  3.1  Stratified: MIXED     Site Depth:   2.4
Lake Area:      20 Watershed Area:      91 WA/LA:      4.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.2   Turbidity:   0.4     Color:   30
Closed pH: 6.21      Equil. pH: 6.50              ANC:   26.0         DOC:  5.70
Closed DIC:  0.37  Equil. DIC:  0.29    Meas. Cond:  14.4   Cal. Cond:  12.6
Ca:   48.9         Mg:   42.8       Na:   16.1        K:   9.2       NH4:  0.6
SO4:   56.0      HCO3:   12.0      Cl:    5.9       NO3:   0.5         F:  1.0
Sum Cations:  118.5  Sum Anions:   75.3  Cations/Anions: 1.57   Tot. P:  11.0
Tot. Al:   16.0    Ext. Al:   8.0    Fe:   60.0     Mn:    0.0    SiO2:  0.42

ID: 2D1-076   Name: CHENEY LAKE                        State: WI  Date: 05NOV84
Sample Type: REGULAR            Latitude: 46-22'54"N    Longitude: 91-42'02"W
Elevation:  340   Surface Temp:  3.4  Stratified: MIXED     Site Depth:   2.7
Lake Area:       8 Watershed Area:      62 WA/LA:      7.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.6   Turbidity:   0.5     Color:   25
Closed pH: 7.02      Equil. pH: 7.35              ANC:  155.5         DOC:  5.70
Closed DIC:  1.85  Equil. DIC:  1.56    Meas. Cond:  18.7   Cal. Cond:  26.3
Ca:  125.2         Mg:   78.1       Na:   28.3        K:  11.0       NH4:  1.6
SO4:   76.4      HCO3:  120.4      Cl:    8.7       NO3:   1.1         F:  1.2
Sum Cations:  244.3  Sum Anions:  207.9  Cations/Anions: 1.18   Tot. P:  19.0
Tot. Al:   13.0    Ext. Al:   2.0    Fe:   10.0     Mn:   10.0    SiO2:  1.01

ID: 2D1-077   Name: LONG LAKE                          State: WI  Date: 12NOV84
Sample Type: REGULAR            Latitude: 46-20'08"N    Longitude: 91-46'49"W
Elevation:  328   Surface Temp:  3.2  Stratified: MIXED     Site Depth:   7.0
Lake Area:      19 Watershed Area:     124 WA/LA:      6.7 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  2.1   Turbidity:   2.2     Color:   35
Closed pH: 7.47      Equil. pH: 8.06              ANC:  628.3         DOC:  3.80
Closed DIC:  7.71  Equil. DIC:  7.71    Meas. Cond:  75.6   Cal. Cond:  75.9
Ca:  428.6         Mg:  192.5       Na:   49.2        K:  11.5       NH4:  2.2
SO4:   74.7      HCO3:  661.6      Cl:    9.9       NO3:   2.9         F:  1.8
Sum Cations:  684.0  Sum Anions:  754.3  Cations/Anions: 0.91   Tot. P:   7.0
Tot. Al:    6.0    Ext. Al:   3.0    Fe:  470.0     Mn:    0.0    SiO2: 15.48

ID: 2D1-078   Name: TWIN LAKES (NORTHERN)              State: WI  Date: 08NOV84
Sample Type: REGULAR            Latitude: 46-21'12"N    Longitude: 91-44'00"W
Elevation:  334   Surface Temp:  4.0  Stratified: MIXED     Site Depth:   1.2
Lake Area:      49 Watershed Area:    1184 WA/LA:     24.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.2   Turbidity:   1.0     Color:   21
Closed pH: 6.89      Equil. pH: 7.24              ANC:   79.0         DOC:  5.60
Closed DIC:  0.79  Equil. DIC:  1.05    Meas. Cond:  21.9   Cal. Cond:  20.7
Ca:   83.8         Mg:   76.5       Na:   22.2        K:   8.2       NH4:  0.0
SO4:   82.7      HCO3:   48.7      Cl:   13.3       NO3:   0.4         F:  1.3
Sum Cations:  191.0  Sum Anions:  146.3  Cations/Anions: 1.31   Tot. P:  15.0
Tot. Al:   17.0    Ext. Al:   2.0    Fe:   10.0     Mn:    0.0    SiO2:  0.44
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D1-081   Name: HARRIET LAKE                      State: WI  Date: 06NOV84
Sample Type: REGULAR            Latitude: 46-13'07"N    Longitude: 91-47'30"W
Elevation:  319   Surface Temp:  3.2  Stratified: MIXED      Site Depth:   2.7
Lake Area:       6 Watershed Area:      52 WA/LA:      9.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.3   Turbidity:   0.7      Color:   30
Closed pH: 6.28       Equil. pH: 6.95              ANC:   51.0         DOC:  8.20
Closed DIC:  1.11   Equil. DIC:  0.56    Meas. Cond:  12.6   Cal. Cond:  12.6
Ca:   61.4          Mg:    39.5       Na:    15.2          K:    5.9      NH4:  2.8
SO4:   31.4       HCO3:    47.8       Cl:     7.3        NO3:    0.7        F:  0.8
Sum Cations:  125.2  Sum Anions:    88.0  Cations/Anions: 1.42   Tot. P:  13.0
Tot. Al:   28.0    Ext. Al:    4.0     Fe:    70.0      Mn:     0.0     SiO2:  0.05

ID: 2D1-082   Name: PINE LAKE                         State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 46-30'29"N    Longitude: 91-39'10"W
Elevation:  348   Surface Temp:  3.9  Stratified: MIXED      Site Depth:   2.5
Lake Area:       7 Watershed Area:      67 WA/LA:     10.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.5   Turbidity:   0.6      Color:   26
Closed pH: 6.11       Equil. pH: 6.62              ANC:   22.0         DOC:  4.60
Closed DIC:  0.63   Equil. DIC:  0.34    Meas. Cond:  10.9   Cal. Cond:  11.2
Ca:   28.4          Mg:    28.8       Na:     7.0          K:   18.4      NH4:  0.0
SO4:   50.8       HCO3:    22.0       Cl:    11.3        NO3:    0.0        F:  0.7
Sum Cations:   83.5  Sum Anions:    84.8  Cations/Anions: 0.98   Tot. P:  11.0
Tot. Al:   28.0    Ext. Al:    8.0     Fe:    40.0      Mn:     0.0     SiO2:  0.07

ID: 2D1-084   Name: FLAT LAKE                         State: WI  Date: 08NOV84
Sample Type: REGULAR            Latitude: 46-19'30"N    Longitude: 91-43'53"W
Elevation:  331   Surface Temp:  4.3  Stratified: MIXED      Site Depth:   1.2
Lake Area:      26 Watershed Area:    1181 WA/LA:     44.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.2   Turbidity:   1.2      Color:   32
Closed pH: 6.45       Equil. pH: 6.96              ANC:   61.0         DOC: 10.70
Closed DIC:  0.97   Equil. DIC:  0.71    Meas. Cond:  15.4   Cal. Cond:  14.8
Ca:   62.4          Mg:    48.5       Na:    20.4          K:    8.2      NH4:  0.6
SO4:   47.9       HCO3:    38.1       Cl:    13.3        NO3:    0.7        F:  1.1
Sum Cations:  140.6  Sum Anions:   101.1  Cations/Anions: 1.39   Tot. P:  13.0
Tot. Al:   26.0    Ext. Al:    6.0     Fe:    50.0      Mn:     0.0     SiO2:  0.70

ID: 2D1-088   Name: (NO NAME)                         State: WI  Date: 05NOV84
Sample Type: REGULAR            Latitude: 46-22'14"N    Longitude: 91-36'29"W
Elevation:  351   Surface Temp:  3.2  Stratified: MIXED      Site Depth:   3.8
Lake Area:       6 Watershed Area:      26 WA/LA:      4.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.7   Turbidity:   0.6      Color:   15
Closed pH: 7.09       Equil. pH: 7.29              ANC:  134.0         DOC:  4.20
Closed DIC:  1.64   Equil. DIC:  1.60    Meas. Cond:  19.5   Cal. Cond:  22.5
Ca:   94.3          Mg:    68.3       Na:    32.6          K:    9.7      NH4:  0.7
SO4:   56.8       HCO3:   124.7       Cl:     8.7        NO3:    0.0        F:  1.3
Sum Cations:  205.7  Sum Anions:   191.6  Cations/Anions: 1.07   Tot. P:   3.0
Tot. Al:    4.0    Ext. Al:    1.0     Fe:    20.0      Mn:     0.0     SiO2:  2.66

ID: 2D2-001   Name: BALLON LAKE                       State: MN  Date: 28OCT84
Sample Type: REGULAR            Latitude: 47-29'00"N    Longitude: 93-40'00"W
Elevation:  414   Surface Temp:  8.0  Stratified: MIXED      Site Depth:  11.0
Lake Area:      10 Watershed Area:      41 WA/LA:      4.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.9   Turbidity:   1.8      Color:   43
Closed pH: 7.50       Equil. pH: 8.83              ANC: 2015.0         DOC:  6.60
Closed DIC: 24.38   Equil. DIC: 22.56    Meas. Cond: 184.7   Cal. Cond: 202.9
Ca: 1305.4          Mg:   557.7       Na:    88.7          K:   35.5      NH4: 19.4
SO4:   11.5       HCO3:  1899.7       Cl:    13.3        NO3:    0.1        F:  3.6
Sum Cations: 2006.8  Sum Anions:  1936.2  Cations/Anions: 1.04   Tot. P:  32.0
Tot. Al:    8.0    Ext. Al:    0.0     Fe:   380.0      Mn:    90.0     SiO2:  4.13
```

(continued)

TABLE 3-1 (continued)

```
ID: 202-006   Name: EVELYN LAKE                          State: WI  Date: 01NOV84
Sample Type: REGULAR             Latitude: 46-09'15"N   Longitude: 91-02'00"W
Elevation:  441   Surface Temp:  5.5  Stratified: MIXED     Site Depth:   4.0
Lake Area:      7 Watershed Area:     28 WA/LA:     3.9 Hydro Type: SEEPAGE
Residence Time:   *   Secchi Depth:  3.3  Turbidity:   0.6     Color:    17
Closed pH: 5.73       Equil. pH: 5.91             ANC:    6.0          DOC:  3.70
Closed DIC:  0.34  Equil. DIC:  0.20   Meas. Cond:  10.6  Cal. Cond:  10.5
Ca:   35.4          Mg:   21.4        Na:    5.2        K:  11.8        NH4:  1.7
SO4:   53.9        HCO3:    4.3       Cl:    6.2       NO3:   0.0          F:  0.7
Sum Cations:   78.3  Sum Anions:   65.1  Cations/Anions: 1.20  Tot. P:  18.0
Tot. Al:   23.0   Ext. Al:   5.0    Fe:   20.0      Mn:   20.0    SiO2:  0.02


ID: 202-008   Name: (NO NAME)                            State: MN  Date: 28OCT84
Sample Type: REGULAR             Latitude: 46-19'30"N   Longitude: 92-51'45"W
Elevation:  322   Surface Temp:  8.4  Stratified: MIXED     Site Depth:   1.8
Lake Area:      7 Watershed Area:     36 WA/LA:     5.1 Hydro Type: SEEPAGE
Residence Time:   *   Secchi Depth:  1.0  Turbidity:   1.5     Color:    58
Closed pH: 6.79       Equil. pH: 7.34             ANC:  153.0          DOC:  8.60
Closed DIC:  2.19  Equil. DIC:  1.61   Meas. Cond:  22.9  Cal. Cond:  21.5
Ca:   92.3          Mg:   85.5        Na:   27.4        K:  22.5        NH4:  2.8
SO4:   17.9        HCO3:  120.4       Cl:   17.2       NO3:   0.2          F:  1.4
Sum Cations:  230.8  Sum Anions:  157.1  Cations/Anions: 1.47  Tot. P:  29.0
Tot. Al:   58.0   Ext. Al:   7.0    Fe:  130.0      Mn:    0.0    SiO2:  1.27


ID: 202-010   Name: GRASS LAKE                           State: MN  Date: 28OCT84
Sample Type: REGULAR             Latitude: 46-09'55"N   Longitude: 92-58'20"W
Elevation:  342   Surface Temp:  8.0  Stratified: MIXED     Site Depth:   1.5
Lake Area:     30 Watershed Area:    106 WA/LA:     3.5 Hydro Type: SEEPAGE
Residence Time:   *   Secchi Depth:  1.4  Turbidity:   1.2     Color:    60
Closed pH: 6.34       Equil. pH: 7.11             ANC:   78.0          DOC: 11.70
Closed DIC:  1.06  Equil. DIC:  0.63   Meas. Cond:  15.3  Cal. Cond:  12.8
Ca:   47.9          Mg:   59.2        Na:   27.4        K:  15.1        NH4:  2.8
SO4:   18.3        HCO3:   36.1       Cl:   10.2       NO3:   0.5          F:  1.3
Sum Cations:  153.0  Sum Anions:   66.4  Cations/Anions: 2.30  Tot. P:  17.0
Tot. Al:   52.0   Ext. Al:  15.0    Fe:  100.0      Mn:   10.0    SiO2:  0.28


ID: 202-011   Name: (NO NAME)                            State: MN  Date: 28OCT84
Sample Type: REGULAR             Latitude: 46-07'40"N   Longitude: 92-55'05"W
Elevation:  336   Surface Temp:  7.8  Stratified: MIXED     Site Depth:   3.7
Lake Area:      5 Watershed Area:     16 WA/LA:     3.3 Hydro Type: SEEPAGE
Residence Time:   *   Secchi Depth:  2.7  Turbidity:   0.6     Color:    32
Closed pH: 7.12       Equil. pH: 7.96             ANC:  495.0          DOC:  4.30
Closed DIC:  6.49  Equil. DIC:  5.62   Meas. Cond:  59.3  Cal. Cond:  63.4
Ca:  281.4          Mg:  223.7        Na:   80.9        K:  20.5        NH4:  3.3
SO4:   72.7        HCO3:  462.9       Cl:   29.6       NO3:   0.8          F:  4.2
Sum Cations:  609.9  Sum Anions:  570.9  Cations/Anions: 1.07  Tot. P:  14.0
Tot. Al:   25.0   Ext. Al:   1.0    Fe:  110.0      Mn:    0.0    SiO2:  2.84


ID: 202-012   Name: CROOKED LAKE                         State: MN  Date: 28OCT84
Sample Type: REGULAR             Latitude: 46-07'15"N   Longitude: 92-33'00"W
Elevation:  319   Surface Temp:  7.8  Stratified: MIXED     Site Depth:   1.2
Lake Area:     39 Watershed Area:   5954 WA/LA:   153.8 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  0.4  Turbidity:   4.1     Color:   150
Closed pH: 7.25       Equil. pH: 7.98             ANC:  503.0          DOC: 15.70
Closed DIC:  5.36  Equil. DIC:  4.76   Meas. Cond:  61.1  Cal. Cond:  64.7
Ca:  343.3          Mg:  252.5        Na:   78.7        K:  16.1        NH4:  2.8
SO4:   70.0        HCO3:  397.7       Cl:   22.8       NO3:   4.5          F:  2.1
Sum Cations:  693.5  Sum Anions:  497.9  Cations/Anions: 1.39  Tot. P:  38.0
Tot. Al:  132.0   Ext. Al:  22.0    Fe:  450.0      Mn:   10.0    SiO2:  8.90
```

(continued)

TABLE 3-1 (continued)

```
ID: 202-016   Name: GULL LAKE                          State: WI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 45-59'22"N    Longitude: 91-44'59"W
Elevation:  335   Surface Temp:  4.1  Stratified: MIXED      Site Depth:   5.2
Lake Area:     208 Watershed Area:   1564 WA/LA:      7.5 Hydro Type: DRAINAGE
Residence Time:  0.96  Secchi Depth:  2.4   Turbidity:   1.1      Color:   26
Closed pH: 7.85       Equil. pH: 8.44             ANC:  944.3         DOC:  5.90
Closed DIC: 11.07   Equil. DIC: 10.80    Meas. Cond:  99.2   Cal. Cond: 105.4
Ca:  616.3          Mg:  324.9        Na:   76.1        K:  10.7        NH4:  0.6
SO4:   59.5       HCO3:  903.8        Cl:   19.7      NO3:   0.0          F:  2.3
Sum Cations: 1028.6  Sum Anions:   989.9  Cations/Anions: 1.04   Tot. P:  17.0
Tot. Al:     3.0    Ext. Al:    2.0    Fe:   20.0      Mn:     0.0   SiO2:  2.43

ID: 202-017   Name: (NO NAME)                          State: WI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 45-58'37"N    Longitude: 91-49'50"W
Elevation:  332   Surface Temp:  4.7  Stratified: MIXED      Site Depth:   6.1
Lake Area:       6 Watershed Area:     18 WA/LA:      2.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.9   Turbidity:   0.8      Color:   32
Closed pH: 6.64       Equil. pH: 7.24             ANC:   77.0         DOC:  3.60
Closed DIC:  1.49   Equil. DIC:  0.90    Meas. Cond:  34.5   Cal. Cond:  35.0
Ca:   55.9          Mg:   62.5        Na:  143.5        K:  19.9        NH4:  6.7
SO4:   25.6       HCO3:   67.5        Cl:  182.2      NO3:   1.7          F:  1.0
Sum Cations:  288.9  Sum Anions:   278.0  Cations/Anions: 1.04   Tot. P:  21.0
Tot. Al:    10.0    Ext. Al:    2.0    Fe:  220.0      Mn:     0.0   SiO2:  0.27

ID: 202-019   Name: TANDA LAKE                         State: WI  Date: 28OCT84
Sample Type: REGULAR            Latitude: 45-56'48"N    Longitude: 92-16'22"W
Elevation:  296   Surface Temp:  8.5  Stratified: MIXED      Site Depth:   1.8
Lake Area:      15 Watershed Area:     75 WA/LA:      4.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.9   Turbidity:   4.8      Color:  115
Closed pH: 7.05       Equil. pH: 7.76             ANC:  312.0         DOC:  9.90
Closed DIC:  3.76   Equil. DIC:  3.24    Meas. Cond:  36.2   Cal. Cond:  34.9
Ca:  181.1          Mg:  130.8        Na:   53.1        K:  10.7        NH4:  5.5
SO4:   18.5       HCO3:  248.1        Cl:    7.6      NO3:   0.3          F:  2.3
Sum Cations:  381.4  Sum Anions:   277.1  Cations/Anions: 1.38   Tot. P:  32.0
Tot. Al:    35.0    Ext. Al:    2.0    Fe:  410.0      Mn:     0.0   SiO2:  7.18

ID: 202-022   Name: (NO NAME)                          State: WI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 45-55'45"N    Longitude: 92-03'33"W
Elevation:  303   Surface Temp:  2.4  Stratified: MIXED      Site Depth:   3.4
Lake Area:      10 Watershed Area:     60 WA/LA:      6.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.7   Turbidity:   1.1      Color:  123
Closed pH: 6.75       Equil. pH: 7.91             ANC:  433.5         DOC: 15.00
Closed DIC:  5.77   Equil. DIC:  3.92    Meas. Cond:  48.2   Cal. Cond:  48.6
Ca:  251.0          Mg:  161.2        Na:   55.2        K:  30.3        NH4: 14.1
SO4:   26.9       HCO3:  334.5        Cl:   23.8      NO3:   1.2          F:  1.8
Sum Cations:  512.1  Sum Anions:   388.5  Cations/Anions: 1.32   Tot. P:  18.5
Tot. Al:    76.0    Ext. Al:   19.0    Fe:  550.0      Mn:     0.0   SiO2:  7.00

ID: 202-023   Name: VIOLA LAKE                         State: WI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 45-49'04"N    Longitude: 92-15'00"W
Elevation:  299   Surface Temp:  5.8  Stratified: MIXED      Site Depth:  11.0
Lake Area:     108 Watershed Area:    225 WA/LA:      2.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.1   Turbidity:   0.4      Color:   12
Closed pH: 7.11       Equil. pH: 7.31             ANC:  161.0         DOC:  4.10
Closed DIC:  2.11   Equil. DIC:  2.06    Meas. Cond:  28.5   Cal. Cond:  28.1
Ca:  139.2          Mg:   80.6        Na:   25.2        K:  18.9        NH4:  0.6
SO4:   45.6       HCO3:  158.0        Cl:   19.2      NO3:   8.7          F:  1.5
Sum Cations:  264.6  Sum Anions:   233.2  Cations/Anions: 1.14   Tot. P:   9.0
Tot. Al:    13.0    Ext. Al:    1.0    Fe:   20.0      Mn:     0.0   SiO2:  0.14
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D2-024   Name: ALDER LAKE                          State: WI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 45-46'52"N    Longitude: 91-45'45"W
Elevation:  386   Surface Temp:  4.4  Stratified: MIXED      Site Depth:   7.0
Lake Area:       5 Watershed Area:      83 WA/LA:     15.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.5   Turbidity:   0.8      Color:    60
Closed pH: 6.26       Equil. pH: 7.40                ANC:  143.0         DOC:  7.40
Closed DIC:  3.54   Equil. DIC:  1.47    Meas. Cond:  21.4   Cal. Cond:  21.6
Ca:   97.8           Mg:    64.2        Na:    24.4          K:  19.9       NH4:   5.5
SO4:   26.4       HCO3:  140.6       Cl:     9.6        NO3:   0.6          F:   1.2
Sum Cations:  212.1  Sum Anions:  178.4  Cations/Anions: 1.19   Tot. P:  17.0
Tot. Al:   29.0   Ext. Al:    7.0     Fe:  480.0     Mn:     0.0    SiO2:  0.73


ID: 2D2-025   Name: HARMON LAKE                         State: WI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 45-46'42"N    Longitude: 91-39'50"W
Elevation:  379   Surface Temp:  4.6  Stratified: MIXED      Site Depth:   5.1
Lake Area:      40 Watershed Area:     285 WA/LA:      7.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.4   Turbidity:   0.8      Color:    38
Closed pH: 6.77       Equil. pH: 7.28                ANC:  113.0         DOC:  6.40
Closed DIC:  1.55   Equil. DIC:  1.23    Meas. Cond:  20.1   Cal. Cond:  18.9
Ca:   85.8           Mg:    55.1        Na:    22.6          K:  18.7       NH4:   2.2
SO4:   45.0       HCO3:   85.5       Cl:     7.6        NO3:   1.2          F:   1.0
Sum Cations:  184.7  Sum Anions:  140.3  Cations/Anions: 1.32   Tot. P:  22.0
Tot. Al:   15.0   Ext. Al:    3.0     Fe:   50.0     Mn:     0.0    SiO2:  0.08


ID: 2D2-026   Name: (NO NAME)                           State: WI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 45-46'50"N    Longitude: 91-34'17"W
Elevation:  408   Surface Temp:  3.9  Stratified: MIXED      Site Depth:   7.0
Lake Area:      13 Watershed Area:      83 WA/LA:      6.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.2   Turbidity:   0.7      Color:    66
Closed pH: 6.42       Equil. pH: 7.17                ANC:  120.0         DOC:  8.50
Closed DIC:  2.04   Equil. DIC:  1.16    Meas. Cond:  18.0   Cal. Cond:  16.6
Ca:   78.3           Mg:    55.9        Na:    18.3          K:  21.5       NH4:   5.0
SO4:   15.0       HCO3:   94.0       Cl:     7.1        NO3:   0.9          F:   0.9
Sum Cations:  179.3  Sum Anions:  117.9  Cations/Anions: 1.52   Tot. P:  21.0
Tot. Al:   35.0   Ext. Al:   12.0     Fe:  150.0     Mn:     0.0    SiO2:  1.00


ID: 2D2-027   Name: (NO NAME)                           State: WI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 45-43'47"N    Longitude: 91-49'55"W
Elevation:  404   Surface Temp:  2.6  Stratified: MIXED      Site Depth:   2.7
Lake Area:       8 Watershed Area:      67 WA/LA:      8.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.6   Turbidity:   1.2      Color:    42
Closed pH: 6.70       Equil. pH: 6.37                ANC:   27.0         DOC:  8.90
Closed DIC:  0.53   Equil. DIC:  0.28    Meas. Cond:  12.7   Cal. Cond:  11.5
Ca:   37.9           Mg:    38.7        Na:    11.3          K:  23.0       NH4:   0.6
SO4:   42.1       HCO3:   11.6       Cl:     5.6        NO3:   0.7          F:   1.2
Sum Cations:  112.7  Sum Anions:   61.3  Cations/Anions: 1.84   Tot. P:  25.0
Tot. Al:   44.0   Ext. Al:   18.0     Fe:   40.0     Mn:     0.0    SiO2:  0.09


ID: 2D2-030   Name: (NO NAME)                           State: WI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 45-44'44"N    Longitude: 91-34'40"W
Elevation:  405   Surface Temp:  4.0  Stratified: MIXED      Site Depth:   5.5
Lake Area:       4 Watershed Area:      16 WA/LA:      3.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.1   Turbidity:   0.5      Color:    26
Closed pH: 6.15       Equil. pH: 6.89                ANC:   36.0         DOC:  4.80
Closed DIC:  0.84   Equil. DIC:  0.44    Meas. Cond:  15.1   Cal. Cond:  14.4
Ca:   46.9           Mg:    40.3        Na:    15.7          K:  17.1       NH4:   1.7
SO4:   63.9       HCO3:   24.9       Cl:     8.5        NO3:   2.1          F:   0.9
Sum Cations:  122.5  Sum Anions:  100.3  Cations/Anions: 1.22   Tot. P:  20.0
Tot. Al:   32.0   Ext. Al:   12.0     Fe:  670.0     Mn:    20.0    SiO2:  0.01
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D2-031   Name: SAWMILL LAKE                           State: WI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 45-45'12"N    Longitude: 91-33'22"W
Elevation:  421   Surface Temp:  6.2  Stratified: MIXED     Site Depth:   7.6
Lake Area:       6 Watershed Area:      18 WA/LA:      3.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.9   Turbidity:   0.5      Color:   16
Closed pH: 6.21        Equil. pH: 6.87               ANC:   43.0        DOC:  3.40
Closed DIC:  0.97   Equil. DIC:  0.52    Meas. Cond:  16.8   Cal. Cond:  16.6
Ca:    56.9          Mg:    44.4        Na:     15.7          K:  19.2       NH4:  0.6
SO4:    75.6       HCO3:    36.3       Cl:      9.6       NO3:    0.0          F:  0.9
Sum Cations:  137.2  Sum Anions:   122.3  Cations/Anions: 1.12   Tot. P:  14.0
Tot. Al:    14.0     Ext. Al:     3.0     Fe:    60.0       Mn:      0.0     SiO2:  0.02

ID: 2D2-033   Name: SHALLOW LAKE                           State: WI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 45-41'00"N    Longitude: 91-52'54"W
Elevation:  389   Surface Temp:  2.7  Stratified: MIXED     Site Depth:   2.7
Lake Area:      26 Watershed Area:     492 WA/LA:     19.3 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  0.9   Turbidity:   2.5      Color:   59
Closed pH: 6.68        Equil. pH: 7.18               ANC:   85.0        DOC:  9.50
Closed DIC:  1.04   Equil. DIC:  0.77    Meas. Cond:  17.4   Cal. Cond:  14.9
Ca:    58.9          Mg:    42.8        Na:     21.3          K:  27.9       NH4:  7.2
SO4:    28.3       HCO3:    48.5       Cl:      8.5       NO3:    3.2          F:  1.1
Sum Cations:  158.4  Sum Anions:    89.6  Cations/Anions: 1.77   Tot. P:  38.0
Tot. Al:    47.0     Ext. Al:     9.0     Fe:    60.0       Mn:      0.0     SiO2:  0.23

ID: 2D2-035   Name: (NO NAME)                              State: WI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 45-42'21"N    Longitude: 91-36'25"W
Elevation:  398   Surface Temp:  4.7  Stratified: MIXED     Site Depth:   4.6
Lake Area:       9 Watershed Area:      28 WA/LA:      3.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.5   Turbidity:   0.4      Color:   24
Closed pH: 6.09        Equil. pH: 6.79               ANC:   25.4        DOC:  4.60
Closed DIC:  0.97   Equil. DIC:  0.42    Meas. Cond:  14.3   Cal. Cond:  13.9
Ca:    46.4          Mg:    37.8        Na:     10.9          K:  20.5       NH4:  1.1
SO4:    60.2       HCO3:    26.2       Cl:      7.3       NO3:    2.0          F:  0.7
Sum Cations:  117.4  Sum Anions:    96.4  Cations/Anions: 1.22   Tot. P:  13.0
Tot. Al:    12.0     Ext. Al:     6.0     Fe:    50.0       Mn:      0.0     SiO2:  0.06

ID: 2D2-036   Name: (NO NAME)                              State: WI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 45-41'32"N    Longitude: 91-35'22"W
Elevation:  394   Surface Temp:  4.8  Stratified: MIXED     Site Depth:   7.6
Lake Area:       5 Watershed Area:      13 WA/LA:      2.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.1   Turbidity:   0.8      Color:   77
Closed pH: 5.57        Equil. pH: 6.35               ANC:   28.0        DOC:  7.90
Closed DIC:  1.34   Equil. DIC:  0.21    Meas. Cond:  14.3   Cal. Cond:  13.1
Ca:    50.9          Mg:    36.2        Na:      8.3          K:  16.1       NH4:  3.9
SO4:    49.3       HCO3:    14.2       Cl:     10.7       NO3:    0.1          F:  1.1
Sum Cations:  117.5  Sum Anions:    75.4  Cations/Anions: 1.56   Tot. P:  25.0
Tot. Al:    57.0     Ext. Al:    32.0     Fe:   370.0       Mn:     60.0     SiO2:  0.34

ID: 202-038   Name: PICKEREL LAKE                          State: WI  Date: 07NOV84
Sample Type: REGULAR              Latitude: 45-37'47"N    Longitude: 91-36'00"W
Elevation:  364   Surface Temp:  3.9  Stratified: MIXED     Site Depth:   5.2
Lake Area:      15 Watershed Area:     736 WA/LA:     48.4 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.4   Turbidity:   2.3      Color:   55
Closed pH: 6.89        Equil. pH: 7.44               ANC:  145.0        DOC:  8.90
Closed DIC:  1.99   Equil. DIC:  1.65    Meas. Cond:  30.9   Cal. Cond:  28.7
Ca:   114.3          Mg:    67.5        Na:     57.4          K:  26.1       NH4: 22.7
SO4:    37.1       HCO3:   119.0       Cl:     36.7       NO3:   10.0          F:  1.2
Sum Cations:  288.1  Sum Anions:   203.9  Cations/Anions: 1.41   Tot. P:  46.0
Tot. Al:    46.0     Ext. Al:     4.0     Fe:   370.0       Mn:     20.0     SiO2:  0.30
```

(continued)

TABLE 3-1 (continued)

```
ID: 202-040   Name: WARD LAKE                              State: WI  Date: 28OCT84
Sample Type: REGULAR              Latitude: 45-45'25"N    Longitude: 92-25'06"W
Elevation:  310   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   7.6
Lake Area:         7 Watershed Area:       54 WA/LA:      7.6 Hydro Type: SEEPAGE
Residence Time:     *    Secchi Depth:  3.3   Turbidity:   0.6      Color:    29
Closed pH: 6.49        Equil. pH: 7.35                ANC:   134.5          DOC:  5.25
Closed DIC:  2.57   Equil. DIC:  1.62     Meas. Cond:  27.1   Cal. Cond:  28.0
Ca:   101.0           Mg:    83.1         Na:    35.2          K:  22.4        NH4:  8.9
SO4:    84.7        HCO3:  127.6         Cl:    11.4        NO3:    0.5            F:  1.3
Sum Cations:  250.8  Sum Anions:   225.7  Cations/Anions: 1.11   Tot. P:  15.5
Tot. Al:    24.0     Ext. Al:    3.0      Fe:  220.0       Mn:      0.0    SiO2:  0.51

ID: 202-041   Name: (NO NAME)                              State: WI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 45-41'14"N    Longitude: 92-01'26"W
Elevation:  376   Surface Temp:  2.4  Stratified: MIXED      Site Depth:   1.4
Lake Area:         6 Watershed Area:      101 WA/LA:     18.0 Hydro Type: DRAINAGE
Residence Time:  0.22  Secchi Depth:  0.5   Turbidity:   5.0      Color:    62
Closed pH: 7.30        Equil. pH: 7.39                ANC:   371.0          DOC:  9.80
Closed DIC:  4.23   Equil. DIC:  3.88     Meas. Cond:  62.2   Cal. Cond:  60.5
Ca:   204.1           Mg:   165.3         Na:    67.4          K: 126.8        NH4:  0.6
SO4:     9.6        HCO3:  269.0         Cl:   182.2        NO3:    0.0            F:  2.3
Sum Cations:  564.4  Sum Anions:   463.2  Cations/Anions: 1.22   Tot. P: 101.0
Tot. Al:    42.0     Ext. Al:    2.0      Fe:  160.0       Mn:     10.0    SiO2:  0.76

ID: 202-044   Name: SPRING LAKE                            State: WI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 45-35'00"N    Longitude: 92-02'30"W
Elevation:  392   Surface Temp:  6.0  Stratified: MIXED      Site Depth:  22.9
Lake Area:        23 Watershed Area:      287 WA/LA:     12.3 Hydro Type: DRAINAGE
Residence Time:  4.69  Secchi Depth:  1.1   Turbidity:   1.5      Color:    64
Closed pH: 6.40        Equil. pH: 7.40                ANC:   113.0          DOC:  9.20
Closed DIC:  1.68   Equil. DIC:  0.97     Meas. Cond:  25.6   Cal. Cond:  23.6
Ca:    98.8           Mg:    71.6         Na:    21.3          K:  40.7        NH4:  1.7
SO4:    58.7        HCO3:   70.3         Cl:    19.5        NO3:    3.8            F:  1.2
Sum Cations:  234.4  Sum Anions:   153.4  Cations/Anions: 1.53   Tot. P:  23.0
Tot. Al:    78.0     Ext. Al:   19.0      Fe:  210.0       Mn:      0.0    SiO2:  0.68

ID: 202-046   Name: CRANBERRY LAKE                         State: WI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 45-33'33"N    Longitude: 92-04'56"W
Elevation:  381   Surface Temp:  3.5  Stratified: MIXED      Site Depth:   5.8
Lake Area:         4 Watershed Area:      161 WA/LA:     39.3 Hydro Type: DRAINAGE
Residence Time:  0.47  Secchi Depth:  0.9   Turbidity:   1.2      Color:    71
Closed pH: 6.59        Equil. pH: 7.48                ANC:   166.0          DOC:  9.90
Closed DIC:  2.45   Equil. DIC:  1.59     Meas. Cond:  30.5   Cal. Cond:  28.3
Ca:   103.8           Mg:    73.2         Na:    56.5          K:  43.7        NH4: 12.2
SO4:    22.3        HCO3:  119.7         Cl:    51.9        NO3:    1.0            F:  1.3
Sum Cations:  289.7  Sum Anions:   196.2  Cations/Anions: 1.48   Tot. P:  28.0
Tot. Al:    54.0     Ext. Al:   15.0      Fe:  330.0       Mn:      0.0    SiO2:  4.13

ID: 202-047   Name: LOON LAKE                              State: WI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 45-28'10"N    Longitude: 92-07'43"W
Elevation:  375   Surface Temp:  4.0  Stratified: MIXED      Site Depth:   6.7
Lake Area:        36 Watershed Area:      145 WA/LA:      4.0 Hydro Type: CLOSED
Residence Time:     *    Secchi Depth:  1.8   Turbidity:   1.1      Color:    24
Closed pH: 6.89        Equil. pH: 7.43                ANC:   139.0          DOC:  6.00
Closed DIC:  1.81   Equil. DIC:  1.57     Meas. Cond:  25.3   Cal. Cond:  24.1
Ca:    99.3           Mg:    73.2         Na:    27.8          K:  30.7        NH4:  2.8
SO4:    50.4        HCO3:   99.1         Cl:    18.9        NO3:    5.9            F:  1.2
Sum Cations:  234.0  Sum Anions:   175.5  Cations/Anions: 1.33   Tot. P:  21.0
Tot. Al:    29.0     Ext. Al:    4.0      Fe:   20.0       Mn:      0.0    SiO2:  0.23
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D2-048   Name: GOOSE LAKE                              State: WI  Date: 07NOV84
Sample Type: REGULAR              Latitude: 45-18'22"N    Longitude: 91-21'08"W
Elevation:  328   Surface Temp:  5.8  Stratified: MIXED      Site Depth:  15.2
Lake Area:       8 Watershed Area:    513 WA/LA:     64.9 Hydro Type: DRAINAGE
Residence Time:  0.79  Secchi Depth:  2.2   Turbidity:   0.9      Color:   24
Closed pH: 7.43        Equil. pH: 8.50              ANC: 1061.0        DOC:  6.30
Closed DIC: 12.82   Equil. DIC: 11.57    Meas. Cond: 106.6   Cal. Cond: 112.1
Ca:   650.2           Mg:   348.0         Na:    70.9         K:  25.6       NH4:   6.1
SO4:    40.4        HCO3:   967.0        Cl:    31.6       NO3:    0.5          F:   2.6
Sum Cations: 1100.8  Sum Anions: 1045.6  Cations/Anions: 1.05   Tot. P:  30.0
Tot. Al:    34.0    Ext. Al:    1.0     Fe:   110.0      Mn:      0.0    SiO2:  2.33

ID: 2D2-049   Name: LOON LAKE                               State: WI  Date: 07NOV84
Sample Type: REGULAR              Latitude: 45-14'48"N    Longitude: 91-28'00"W
Elevation:  328   Surface Temp:  2.9  Stratified: MIXED      Site Depth:   1.8
Lake Area:      54 Watershed Area:    212 WA/LA:      3.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.4   Turbidity:   0.7      Color:   22
Closed pH: 6.02        Equil. pH: 6.31              ANC:   23.0        DOC:  5.50
Closed DIC:  0.40.  Equil. DIC:  0.25    Meas. Cond:  13.2   Cal. Cond:  12.1
Ca:    40.9           Mg:    36.2         Na:    10.0         K:  13.0       NH4:   0.6
SO4:    62.5        HCO3:    10.5        Cl:     4.5       NO3:    0.0          F:   1.1
Sum Cations:  101.9  Sum Anions:    78.5  Cations/Anions: 1.30   Tot. P:  23.0
Tot. Al:     5.0    Ext. Al:    6.0     Fe:    30.0      Mn:      0.0    SiO2:  0.00

ID: 2D2-050   Name: LOWLAND LAKE                            State: WI  Date: 07NOV84
Sample Type: REGULAR              Latitude: 45-12'24"N    Longitude: 91-21'44"W
Elevation:  328   Surface Temp:  3.9  Stratified: MIXED      Site Depth:   4.6
Lake Area:       5 Watershed Area:     47 WA/LA:      9.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.3   Turbidity:   1.0      Color:   43
Closed pH: 6.40        Equil. pH: 7.04              ANC:   72.0        DOC:  5.70
Closed DIC:  1.13   Equil. DIC:  0.73    Meas. Cond:  15.8   Cal. Cond:  14.2
Ca:    56.4           Mg:    41.1         Na:    19.1         K:  21.2       NH4:   0.0
SO4:    42.9        HCO3:    46.5        Cl:     5.1       NO3:    0.8          F:   1.1
Sum Cations:  138.4  Sum Anions:    96.4  Cations/Anions: 1.44   Tot. P:  18.0
Tot. Al:    29.0    Ext. Al:    6.0     Fe:    50.0      Mn:      0.0    SiO2:  0.01

ID: 2D2-051   Name: (NO NAME)                               State: WI  Date: 28OCT84
Sample Type: REGULAR              Latitude: 45-45'13"N    Longitude: 92-25'47"W
Elevation:  306   Surface Temp:  9.2  Stratified: MIXED      Site Depth:   3.0
Lake Area:       6 Watershed Area:     34 WA/LA:      5.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.3   Turbidity:   1.4      Color:   48
Closed pH: 7.11        Equil. pH: 7.72              ANC:  486.0        DOC:  8.20
Closed DIC:  6.11   Equil. DIC:  5.39    Meas. Cond:  55.0   Cal. Cond:  57.2
Ca:   259.0           Mg:   213.1         Na:    64.8         K:  27.6       NH4:   1.7
SO4:    46.2        HCO3:   445.7        Cl:    18.6       NO3:    0.0          F:   1.8
Sum Cations:  566.2  Sum Anions:   513.1  Cations/Anions: 1.10   Tot. P:  30.0
Tot. Al:    13.0    Ext. Al:    0.0     Fe:   150.0      Mn:      0.0    SiO2:  1.60

ID: 2D2-053   Name: ROUND LAKE                              State: WI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 45-53'41"N    Longitude: 92-12'29"W
Elevation:  297   Surface Temp:  1.9  Stratified: MIXED      Site Depth:   1.7
Lake Area:      11 Watershed Area:    101 WA/LA:      9.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.4   Turbidity:   0.5      Color:   74
Closed pH: 5.91        Equil. pH: 6.41              ANC:   30.0        DOC:  9.80
Closed DIC:  0.64   Equil. DIC:  0.29    Meas. Cond:  17.7   Cal. Cond:  16.9
Ca:    47.9           Mg:    34.5         Na:     7.4         K:  26.6       NH4:  28.3
SO4:    67.0        HCO3:    14.4        Cl:    12.1       NO3:    4.8          F:   1.0
Sum Cations:  146.0  Sum Anions:    99.4  Cations/Anions: 1.47   Tot. P:  20.0
Tot. Al:   103.0    Ext. Al:   36.0     Fe:   210.0      Mn:     30.0    SiO2:  0.45
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D2-054   Name: LAKE THIRTY                          State: WI  Date: 07NOV84
Sample Type: REGULAR             Latitude: 45-34'50"N   Longitude: 91-54'04"W
Elevation:  386   Surface Temp:  4.4  Stratified: MIXED      Site Depth:   7.0
Lake Area:      31 Watershed Area:    484 WA/LA:    15.8 Hydro Type: DRAINAGE
Residence Time:  1.19  Secchi Depth:  1.5  Turbidity:   1.5     Color:    54
Closed pH: 6.82       Equil. pH: 7.34               ANC:  126.0        DOC:  8.90
Closed DIC:  1.40   Equil. DIC:  1.08    Meas. Cond:  25.9   Cal. Cond:  23.8
Ca:  125.7          Mg:    69.9       Na:    28.7         K:  23.5     NH4:  1.1
SO4:    56.4     HCO3:    86.6        Cl:     9.6       NO3:    2.1        F:  1.2
Sum Cations:  249.2  Sum Anions:  155.9  Cations/Anions: 1.60   Tot. P:  19.0
Tot. Al:    66.0    Ext. Al:    8.0    Fe:    70.0      Mn:     0.0   SiO2:  0.05

ID: 2D2-055   Name: BUFF LAKE                            State: WI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 45-45'18"N   Longitude: 91-29'24"W
Elevation:  402   Surface Temp:  3.3  Stratified: MIXED      Site Depth:   2.7
Lake Area:       9 Watershed Area:    174 WA/LA:    19.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.9  Turbidity:   1.6     Color:    75
Closed pH: 7.01       Equil. pH: 7.61               ANC:  265.0        DOC:  8.60
Closed DIC:  3.64   Equil. DIC:  3.03    Meas. Cond:  33.9   Cal. Cond:  32.9
Ca:  164.2          Mg:   112.7       Na:    49.6         K:  22.0     NH4:  0.6
SO4:    14.4     HCO3:   251.2        Cl:     6.5       NO3:    0.0        F:  1.8
Sum Cations:  349.1  Sum Anions:  274.1  Cations/Anions: 1.27   Tot. P:  26.0
Tot. Al:    12.0    Ext. Al:    3.0    Fe:   320.0      Mn:     0.0   SiO2:  0.00

ID: 2D2-057   Name: BASS LAKE                            State: WI  Date: 07NOV84
Sample Type: REGULAR             Latitude: 45-36'40"N   Longitude: 91-49'56"W
Elevation:  373   Surface Temp:  4.1  Stratified: MIXED      Site Depth:   5.2
Lake Area:      12 Watershed Area:     54 WA/LA:     4:6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.9  Turbidity:   0.4     Color:    25
Closed pH: 6.46       Equil. pH: 7.15               ANC:   67.0        DOC:  5.20
Closed DIC:  1.20   Equil. DIC:  0.67    Meas. Cond:  17.5   Cal. Cond:  16.4
Ca:   63.9          Mg:    46.1       Na:    19.1         K:  18.2     NH4:  7.2
SO4:    49.1     HCO3:    58.6        Cl:     7.3       NO3:    1.6        F:  1.1
Sum Cations:  154.8  Sum Anions:  117.7  Cations/Anions: 1.31   Tot. P:  10.0
Tot. Al:    21.0    Ext. Al:    4.0    Fe:   100.0      Mn:     0.0   SiO2:  0.09

ID: 2D2-058   Name: ADELE LAKE                           State: MN  Date: 28OCT84
Sample Type: REGULAR             Latitude: 47-28'14"N   Longitude: 93-39'14"W
Elevation:  416   Surface Temp:  7.1  Stratified: MIXED      Site Depth:   3.0
Lake Area:       7 Watershed Area:     28 WA/LA:     4.3 Hydro Type: DRAINAGE
Residence Time:  1.14  Secchi Depth:  1.9  Turbidity:   0.8     Color:    27
Closed pH: 6.78       Equil. pH: 7.41               ANC:  129.0        DOC:  4.70
Closed DIC:  1.83   Equil. DIC:  1.43    Meas. Cond:  16.6   Cal. Cond:  15.9
Ca:   64.4          Mg:    49.4       Na:    13.9         K:  31.2     NH4:  0.6
SO4:    11.5     HCO3:   105.1        Cl:     7.3       NO3:    1.4        F:  1.2
Sum Cations:  159.6  Sum Anions:  126.5  Cations/Anions: 1.26   Tot. P:  17.0
Tot. Al:    17.0    Ext. Al:    1.0    Fe:    50.0      Mn:    10.0   SiO2:  0.75

ID: 2D2-059   Name: CLEAR LAKE                           State: MN  Date: 28OCT84
Sample Type: REGULAR             Latitude: 46-18'09"N   Longitude: 92-52'49"W
Elevation:  322   Surface Temp:  9.3  Stratified: MIXED      Site Depth:  10.7
Lake Area:      10 Watershed Area:     36 WA/LA:     3.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.6  Turbidity:   1.1     Color:    25
Closed pH: 6.61       Equil. pH: 7.36               ANC:  131.0        DOC:  4.40
Closed DIC:  2.16   Equil. DIC:  1.50    Meas. Cond:  20.0   Cal. Cond:  20.3
Ca:   78.8          Mg:    61.7       Na:    18.3         K:  23.5     NH4:  2.8
SO4:    36.6     HCO3:   117.3        Cl:    14.1       NO3:    1.3        F:  1.3
Sum Cations:  185.3  Sum Anions:  170.7  Cations/Anions: 1.09   Tot. P:  17.0
Tot. Al:    28.0    Ext. Al:    0.0    Fe:    70.0      Mn:     0.0   SiO2:  0.17
```

(continued)

TABLE 3-1 (continued)

```
ID: 202-060   Name: OAK LAKE                      State: WI  Date: 04NOV84
Sample Type: REGULAR           Latitude: 45-47'00"N    Longitude: 91-46'17"W
Elevation:  389   Surface Temp:  5.9  Stratified: MIXED      Site Depth:  14.3
Lake Area:      12 Watershed Area:     109 WA/LA:      9.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.5   Turbidity:   0.9      Color:    23
Closed pH: 6.48       Equil. pH: 7.09             ANC:   80.0          DOC:  4.30
Closed DIC:  1.66   Equil. DIC:  1.04    Meas. Cond:  22.8   Cal. Cond:  22.6
Ca:   86.3          Mg:   57.6       Na:   20.0        K:  30.4       NH4:  3.3
SO4:   80.8       HCO3:   76.7       Cl:   11.8      NO3:   0.1         F:  0.9
Sum Cations:  198.0  Sum Anions:  170.5  Cations/Anions: 1.16   Tot. P:  18.0
Tot. Al:   19.0    Ext. Al:   4.0     Fe:   40.0      Mn:   20.0     SiO2:  0.20

ID: 202-062   Name: (NO NAME)                     State: WI  Date: 03NOV84
Sample Type: REGULAR           Latitude: 45-57'00"N    Longitude: 92-04'45"W
Elevation:  303   Surface Temp:  3.7  Stratified: MIXED      Site Depth:   7.0
Lake Area:       6 Watershed Area:      36 WA/LA:      6.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.2   Turbidity:   0.5      Color:    37
Closed pH: 6.11       Equil. pH: 6.82             ANC:   93.2          DOC:  7.20
Closed DIC:  1.64   Equil. DIC:  0.66    Meas. Cond:   9.1   Cal. Cond:   8.5
Ca:   46.4          Mg:   26.3       Na:    3.9        K:   9.2       NH4:  0.6
SO4:    4.6       HCO3:   46.7       Cl:    8.7      NO3:   0.0         F:  0.6
Sum Cations:   87.2  Sum Anions:   60.6  Cations/Anions: 1.44   Tot. P:  12.0
Tot. Al:   22.0    Ext. Al:   4.0     Fe:  220.0      Mn:   20.0     SiO2:  0.14

ID: 202-064   Name: LOON LAKE                     State: WI  Date: 04NOV84
Sample Type: REGULAR           Latitude: 45-41'07"N    Longitude: 91-36'53"W
Elevation:  401   Surface Temp:  5.2  Stratified: MIXED      Site Depth:  12.8
Lake Area:      17 Watershed Area:      80 WA/LA:      4.8 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.9   Turbidity:   1.4      Color:    37
Closed pH: 6.29       Equil. pH: 7.19             ANC:   84.0          DOC:  5.30
Closed DIC:  1.89   Equil. DIC:  0.89    Meas. Cond:  22.7   Cal. Cond:  22.8
Ca:   76.8          Mg:   55.9       Na:   14.4        K:  43.2       NH4:  8.3
SO4:   75.8       HCO3:   66.9       Cl:   16.4      NO3:   4.2         F:  1.0
Sum Cations:  199.1  Sum Anions:  164.3  Cations/Anions: 1.21   Tot. P:  25.0
Tot. Al:   47.0    Ext. Al:   9.0     Fe:  130.0      Mn:   10.0     SiO2:  0.23

ID: 202-065   Name: (NO NAME)                     State: WI  Date: 04NOV84
Sample Type: REGULAR           Latitude: 45-44'42"N    Longitude: 91-35'51"W
Elevation:  395   Surface Temp:  4.8  Stratified: MIXED      Site Depth:   7.6
Lake Area:       5 Watershed Area:      31 WA/LA:      6.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.4   Turbidity:   0.9      Color:    43
Closed pH: 6.13       Equil. pH: 7.13             ANC:   71.0          DOC:  6.60
Closed DIC:  2.01   Equil. DIC:  0.76    Meas. Cond:  17.8   Cal. Cond:  16.4
Ca:   73.9          Mg:   49.4       Na:   15.7        K:  14.8       NH4:  3.3
SO4:   48.7       HCO3:   54.4       Cl:    7.1      NO3:   2.3         F:  0.9
Sum Cations:  157.7  Sum Anions:  113.4  Cations/Anions: 1.39   Tot. P:  21.0
Tot. Al:   31.0    Ext. Al:  15.0     Fe:  120.0      Mn:   20.0     SiO2:  0.57

ID: 202-067   Name: KINNY LAKE                    State: WI  Date: 03NOV84
Sample Type: REGULAR           Latitude: 45-40'57"N    Longitude: 92-00'49"W
Elevation:  395   Surface Temp:  3.6  Stratified: MIXED      Site Depth:   4.0
Lake Area:       4 Watershed Area:      18 WA/LA:      4.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.1   Turbidity:   1.2      Color:    68
Closed pH: 6.51       Equil. pH: 7.41             ANC:  159.0          DOC:  8.50
Closed DIC:  2.84   Equil. DIC:  1.66    Meas. Cond:  25.4   Cal. Cond:  23.9
Ca:  101.3          Mg:   65.0       Na:   31.8        K:  33.0       NH4: 10.0
SO4:   31.0       HCO3:  128.9       Cl:   14.7      NO3:   2.8         F:  0.9
Sum Cations:  241.3  Sum Anions:  178.4  Cations/Anions: 1.35   Tot. P:  39.0
Tot. Al:   42.0    Ext. Al:   8.0     Fe:  270.0      Mn:    0.0     SiO2:  0.79
```

(continued)

TABLE 3-1 (continued)

```
                                                           State: WI  Date: 04NOV84
ID: 202-068   Name: MOODY LAKE
Sample Type: REGULAR              Latitude: 45-45'43"N    Longitude: 91-44'42"W
Elevation:  375   Surface Temp:  5.0  Stratified: MIXED     Site Depth:   8.8
Lake Area:      20 Watershed Area:     119 WA/LA:     6.0 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  2.1  Turbidity:   0.8       Color:   43
Closed pH: 6.36        Equil. pH: 7.20             ANC:   85.0          DOC:  6.00
Closed DIC:   1.66   Equil. DIC:  0.84    Meas. Cond:   15.8   Cal. Cond:  15.5
Ca:   53.9            Mg:    42.8        Na:    12.2          K:  28.4      NH4:  10.5
SO4:    33.3       HCO3:    64.3       Cl:    10.4       NO3:    1.2          F:   0.9
Sum Cations:   148.1  Sum Anions:   110.1  Cations/Anions: 1.35   Tot. P:  20.0
Tot. Al:    26.0    Ext. Al:    5.0     Fe:   290.0      Mn:    20.0     SiO2:  0.19

                                                           State: WI  Date: 28OCT84
ID: 202-069   Name: BRICHER LAKE
Sample Type: REGULAR              Latitude: 45-57'54"N    Longitude: 92-20'35"W
Elevation:  289   Surface Temp:  9.5  Stratified: MIXED     Site Depth:   5.2
Lake Area:      11 Watershed Area:      52 WA/LA:     4.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.3  Turbidity:   1.0       Color:   27
Closed pH: 6.37        Equil. pH: 7.41             ANC:   70.7          DOC:  5.20
Closed DIC:   1.58   Equil. DIC:  0.89    Meas. Cond:   14.4   Cal. Cond:  14.1
Ca:   57.4            Mg:    45.2        Na:    13.9          K:  12.8      NH4:   0.0
SO4:    33.3       HCO3:    73.3       Cl:     6.8       NO3:    0.0          F:   0.9
Sum Cations:   129.7  Sum Anions:   114.3  Cations/Anions: 1.13   Tot. P:  24.0
Tot. Al:    13.0    Ext. Al:    1.0     Fe:    50.0      Mn:     0.0     SiO2:  0.35

                                                           State: WI  Date: 03NOV84
ID: 202-070   Name: (NO NAME)
Sample Type: REGULAR              Latitude: 45-38'35"N    Longitude: 92-01'09"W
Elevation:  408   Surface Temp:  3.1  Stratified: MIXED     Site Depth:   4.0
Lake Area:       8 Watershed Area:      70 WA/LA:     8.8 Hydro Type: DRAINAGE
Residence Time:  1.02  Secchi Depth:  0.7  Turbidity:   1.6       Color:   91
Closed pH: 6.36        Equil. pH: 7.03             ANC:   81.0          DOC: 11.40
Closed DIC:   0.92   Equil. DIC:  0.55    Meas. Cond:   19.1   Cal. Cond:  16.5
Ca:   54.4            Mg:    50.2        Na:    21.3          K:  46.0      NH4:   5.0
SO4:    30.0       HCO3:    32.2       Cl:    21.7       NO3:    1.1          F:   0.9
Sum Cations:   177.4  Sum Anions:    85.9  Cations/Anions: 2.06   Tot. P:  31.0
Tot. Al:    99.0    Ext. Al:   25.0     Fe:   110.0      Mn:     0.0     SiO2:  0.57

                                                           State: WI  Date: 07NOV84
ID: 202-071   Name: LOGGER LAKE
Sample Type: REGULAR              Latitude: 45-14'21"N    Longitude: 91-22'50"W
Elevation:  346   Surface Temp:  3.8  Stratified: MIXED     Site Depth:   2.7
Lake Area:      10 Watershed Area:      21 WA/LA:     2.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.9  Turbidity:   0.8       Color:   39
Closed pH: 6.27        Equil. pH: 6.90             ANC:   66.0          DOC:  7.00
Closed DIC:   1.08   Equil. DIC:  0.54    Meas. Cond:   15.3   Cal. Cond:  13.6
Ca:   55.4            Mg:    44.4        Na:    17.4          K:  16.1      NH4:   0.6
SO4:    41.4       HCO3:    40.4       Cl:     5.4       NO3:    0.6          F:   1.0
Sum Cations:   134.5  Sum Anions:    88.8  Cations/Anions: 1.51   Tot. P:  17.0
Tot. Al:    40.0    Ext. Al:    7.0     Fe:    60.0      Mn:     0.0     SiO2:  0.04

                                                           State: WI  Date: 28OCT84
ID: 202-072   Name: PIKE LAKE
Sample Type: REGULAR              Latitude: 45-49'53"N    Longitude: 92-17'28"W
Elevation:  295   Surface Temp:  8.9  Stratified: MIXED     Site Depth:   5.2
Lake Area:      30 Watershed Area:     161 WA/LA:     5.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.8  Turbidity:   1.2       Color:   28
Closed pH: 7.00        Equil. pH: 7.82             ANC:  291.0          DOC:  6.70
Closed DIC:   3.72   Equil. DIC:  3.26    Meas. Cond:   46.0   Cal. Cond:  46.1
Ca:  186.1            Mg:   138.2        Na:    84.4          K:  27.6      NH4:  11.6
SO4:    31.0       HCO3:   248.3       Cl:    89.7       NO3:    1.4          F:   1.5
Sum Cations:   448.1  Sum Anions:   372.2  Cations/Anions: 1.20   Tot. P:  25.0
Tot. Al:    41.0    Ext. Al:    3.0     Fe:    60.0      Mn:     0.0     SiO2:  0.21
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D2-074   Name: (NO NAME)                        State: WI  Date: 03NOV84
Sample Type: REGULAR             Latitude: 45-29'26"N   Longitude: 92-05'08"W
Elevation:  386   Surface Temp:  3.1  Stratified: MIXED     Site Depth:   2.1
Lake Area:      9 Watershed Area:     70 WA/LA:      8.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.8  Turbidity:   0.9     Color:   63
Closed pH: 6.27      Equil. pH: 7.23              ANC:  120.0        DOC: 10.12
Closed DIC:  2.70  Equil. DIC:  1.12    Meas. Cond:  20.6  Cal. Cond:  19.0
Ca:   75.8          Mg:   65.8       Na:   17.4        K:  37.1      NH4:  3.3
SO4:   12.7      HCO3:   92.0      Cl:   24.3        NO3:   0.0         F:  1.1
Sum Cations:  199.9  Sum Anions:  130.1  Cations/Anions: 1.54   Tot. P:  22.0
Tot. Al:   42.0    Ext. Al:   2.0    Fe:  110.0      Mn:    0.0    SiO2:  0.67


ID: 2D2-075   Name: SNOWSHOE LAKE                    State: MN  Date: 28OCT84
Sample Type: REGULAR             Latitude: 46-04'56"N   Longitude: 93-15'00"W
Elevation:  341   Surface Temp:  7.6  Stratified: MIXED     Site Depth:   3.4
Lake Area:     18 Watershed Area:    212 WA/LA:     12.0 Hydro Type: DRAINAGE
Residence Time:  0.73  Secchi Depth:  1.1  Turbidity:   3.2     Color:  115
Closed pH: 7.35      Equil. pH: 8.32              ANC:  740.0        DOC: 13.30
Closed DIC:  8.22  Equil. DIC:  7.64    Meas. Cond:  81.3  Cal. Cond:  88.0
Ca:  479.0          Mg:  304.4       Na:   69.2        K:  37.3      NH4: 10.5
SO4:   59.5      HCO3:  628.5      Cl:   37.5        NO3:   6.9         F:  2.5
Sum Cations:  900.5  Sum Anions:  736.6  Cations/Anions: 1.22   Tot. P:  47.0
Tot. Al:  125.0    Ext. Al:  16.0    Fe:  170.0      Mn:    0.0    SiO2:  2.91


ID: 2D2-076   Name: LOST LAKE                        State: WI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 45-43'01"N   Longitude: 91-50'54"W
Elevation:  373   Surface Temp:  4.9  Stratified: MIXED     Site Depth:   7.6
Lake Area:      4 Watershed Area:     28 WA/LA:      6.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.4  Turbidity:   1.3     Color:   79
Closed pH: 6.01      Equil. pH: 7.72              ANC:  272.0        DOC:  8.30
Closed DIC:  3.96  Equil. DIC:  2.67    Meas. Cond:  30.5  Cal. Cond:  30.1
Ca:  131.2          Mg:   81.4       Na:   18.7        K:  66.5      NH4:  2.2
SO4:    5.6      HCO3:  223.8      Cl:   18.9        NO3:   0.6         F:  1.2
Sum Cations:  300.3  Sum Anions:  250.2  Cations/Anions: 1.20   Tot. P:  47.0
Tot. Al:   15.0    Ext. Al:   2.0    Fe:  960.0      Mn:   40.0    SiO2:  0.74


ID: 2D2-079   Name: RAINY LAKE                       State: WI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 46-03'36"N   Longitude: 91-43'27"W
Elevation:  367   Surface Temp:  3.0  Stratified: MIXED     Site Depth:   2.4
Lake Area:      5 Watershed Area:     28 WA/LA:      5.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.4  Turbidity:   0.4     Color:   23
Closed pH: 6.23      Equil. pH: 6.84              ANC:   36.0        DOC:  4.40
Closed DIC:  0.75  Equil. DIC:  0.29    Meas. Cond:  15.3  Cal. Cond:  14.7
Ca:   52.1          Mg:   40.7       Na:   12.8        K:  16.7      NH4:  0.3
SO4:   67.0      HCO3:   25.3      Cl:   10.4        NO3:   0.1         F:  0.7
Sum Cations:  123.3  Sum Anions:  103.6  Cations/Anions: 1.19   Tot. P:  21.0
Tot. Al:   24.5    Ext. Al:   9.0    Fe:   30.0      Mn:    0.0    SiO2:  0.01


ID: 2D2-080   Name: (NO NAME)                        State: MN  Date: 28OCT84
Sample Type: REGULAR             Latitude: 46-11'42"N   Longitude: 92-59'02"W
Elevation:  376   Surface Temp:  7.7  Stratified: MIXED     Site Depth:   2.1
Lake Area:      5 Watershed Area:     62 WA/LA:     11.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.4  Turbidity:   1.4     Color:   67
Closed pH: 6.58      Equil. pH: 7.72              ANC:  171.0        DOC:  8.70
Closed DIC:  2.45  Equil. DIC:  1.72    Meas. Cond:  24.4  Cal. Cond:  22.8
Ca:   68.9          Mg:   69.9       Na:   31.8        K:  63.4      NH4:  5.0
SO4:   10.6      HCO3:  132.6      Cl:   13.8        NO3:   6.0         F:  1.2
Sum Cations:  239.1  Sum Anions:  164.4  Cations/Anions: 1.45   Tot. P:  28.0
Tot. Al:   61.0    Ext. Al:  10.0    Fe:  150.0      Mn:    0.0    SiO2:  1.37
```

(continued)

TABLE 3-1 (continued)

```
ID: 202-082   Name: LITTLE PINE LAKE                State: WI  Date: 07NOV84
Sample Type: REGULAR           Latitude: 45-17'02"N   Longitude: 91-28'57"W
Elevation:  334   Surface Temp:  5.8  Stratified: MIXED      Site Depth:   4.6
Lake Area:       4 Watershed Area:      13 WA/LA:      3.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.0   Turbidity:   0.9      Color:    26
Closed pH: 6.32      Equil. pH: 7.38              ANC:  119.0          DOC:  4.10
Closed DIC:  2.58   Equil. DIC:  1.03    Meas. Cond:  22.8   Cal. Cond:  21.7
Ca:   86.8          Mg:   60.9        Na:    25.7         K:  18.9       NH4:   5.5
SO4:    59.1       HCO3:  104.4       Cl:     8.7       NO3:   0.0          F:   1.5
Sum Cations:  198.2  Sum Anions:   173.8  Cations/Anions: 1.14   Tot. P:  16.0
Tot. Al:    16.0    Ext. Al:    4.0     Fe:    40.0      Mn:     0.0    SiO2:  0.10

ID: 202-084   Name: TWIN LAKES (SOUTH)              State: WI  Date: 01NOV84
Sample Type: REGULAR           Latitude: 46-11'59"N   Longitude: 91-08'30"W
Elevation:  431   Surface Temp:  5.3  Stratified: MIXED      Site Depth:   3.0
Lake Area:       6 Watershed Area:      39 WA/LA:      6.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.7   Turbidity:   0.9      Color:    24
Closed pH: 6.36      Equil. pH: 6.63              ANC:   36.0          DOC:  4.30
Closed DIC:  0.87   Equil. DIC:  0.51    Meas. Cond:  20.5   Cal. Cond:  19.0
Ca:   41.9          Mg:   38.7        Na:    64.4         K:  16.1       NH4:   2.2
SO4:    16.0       HCO3:   27.7       Cl:    92.5       NO3:   0.4          F:   0.8
Sum Cations:  164.0  Sum Anions:   137.4  Cations/Anions: 1.19   Tot. P:  30.0
Tot. Al:    16.0    Ext. Al:    1.0     Fe:    60.0      Mn:     0.0    SiO2:  0.15

ID: 203-001   Name: MCDONALD LAKE                   State: MN  Date: 13OCT84
Sample Type: REGULAR           Latitude: 47-39'45"N   Longitude: 93-37'00"W
Elevation:  409   Surface Temp: 14.6  Stratified: MIXED      Site Depth:   4.3
Lake Area:      11 Watershed Area:      57 WA/LA:      5.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.2   Turbidity:   0.4      Color:    55
Closed pH: 7.05      Equil. pH: 8.27              ANC:  881.0          DOC: 15.80
Closed DIC: 10.29   Equil. DIC:  9.64    Meas. Cond:  86.7   Cal. Cond:  92.2
Ca:  561.4          Mg:  354.5        Na:    34.8         K:  12.5       NH4:   9.4
SO4:     8.5       HCO3:  786.3       Cl:     7.6       NO3:   0.5          F:   2.8
Sum Cations:  972.7  Sum Anions:   808.4  Cations/Anions: 1.20   Tot. P:  14.0
Tot. Al:     8.0    Ext. Al:    4.0     Fe:    70.0      Mn:    10.0    SiO2:  2.00

ID: 203-002   Name: RANIER LAKE                     State: MN  Date: 14OCT84
Sample Type: REGULAR           Latitude: 47-35'30"N   Longitude: 93-41'10"W
Elevation:  422   Surface Temp: 13.1  Stratified: WEAK       Site Depth:  12.8
Lake Area:      35 Watershed Area:     104 WA/LA:      3.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  4.3   Turbidity:   0.5      Color:     6
Closed pH: 7.44      Equil. pH: 8.47              ANC: 1362.0          DOC:  6.40
Closed DIC: 14.65   Equil. DIC: 14.29    Meas. Cond: 145.0   Cal. Cond: 151.2
Ca:  846.8          Mg:  402.3        Na:   166.2         K:  70.6       NH4:   0.0
SO4:    20.6       HCO3: 1170.8       Cl:   149.5       NO3:   0.0          F:   2.4
Sum Cations: 1485.8  Sum Anions:  1354.2  Cations/Anions: 1.10   Tot. P:  18.0
Tot. Al:     8.0    Ext. Al:    4.0     Fe:     0.0      Mn:     0.0    SiO2:  0.17

ID: 203-003   Name: MOON LAKE                       State: MN  Date: 14OCT84
Sample Type: REG/SPC/LTM/      Latitude: 47-32'20"N   Longitude: 93-29'40"W
Elevation:  430   Surface Temp: 13.2  Stratified: MIXED      Site Depth:   6.4
Lake Area:      10 Watershed Area:      26 WA/LA:      2.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.5   Turbidity:   0.8      Color:    12
Closed pH: 7.02      Equil. pH: 7.41              ANC:   75.0          DOC:  5.00
Closed DIC:  1.05   Equil. DIC:  0.82    Meas. Cond:  19.2   Cal. Cond:  19.8
Ca:   66.9          Mg:   54.3        Na:    18.7         K:  31.2       NH4:   0.0
SO4:    66.8       HCO3:   62.7       Cl:    19.2       NO3:   0.0          F:   1.6
Sum Cations:  171.2  Sum Anions:   150.4  Cations/Anions: 1.14   Tot. P:  10.0
Tot. Al:    20.0    Ext. Al:    6.0     Fe:    10.0      Mn:     0.0    SiO2:  0.26
```

(continued)

TABLE 3-1 (continued)

```
ID: 203-004   Name: LONG LAKE                         State: MN  Date: 28OCT84
Sample Type: REGULAR            Latitude: 47-24'50"N    Longitude: 93-36'50"W
Elevation:  412   Surface Temp:  7.5  Stratified: MIXED      Site Depth:  12.5
Lake Area:      17 Watershed Area:     109 WA/LA:      6.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.8  Turbidity:    3.1       Color:   60
Closed pH: 6.73        Equil. pH: 7.47               ANC:  316.0         DOC:  9.10
Closed DIC:  4.93   Equil. DIC:  3.41   Meas. Cond:  41.5   Cal. Cond:   42.2
Ca:  238.5          Mg:  130.8       Na:    23.5        K:  35.8        NH4:  8.3
SO4:    34.6       HCO3:  284.7      Cl:   13.3      NO3:    1.0           F:  1.5
Sum Cations:  437.1  Sum Anions:  335.2  Cations/Anions: 1.30   Tot. P:  20.0
Tot. Al:   23.0    Ext. Al:    2.0    Fe:  140.0      Mn:    10.0     SiO2:  2.32

ID: 203-006   Name: MURPHY LAKE                       State: MN  Date: 07OCT84
Sample Type: REGULAR            Latitude: 47-18'00"N    Longitude: 92-29'45"W
Elevation:  411   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   6.1
Lake Area:     142 Watershed Area:    1870 WA/LA:     13.2 Hydro Type: DRAINAGE
Residence Time:  1.21  Secchi Depth:  0.9  Turbidity:    6.2       Color:   55
Closed pH: 7.41        Equil. pH: 8.32               ANC:  801.0         DOC: 13.10
Closed DIC:  9.92   Equil. DIC:  9.86   Meas. Cond: 107.0   Cal. Cond:  112.7
Ca:  509.9          Mg:  441.7       Na:   158.3        K:  24.5        NH4:  0.6
SO4:    42.1       HCO3:  815.4      Cl:  115.7      NO3:    2.4           F:  5.4
Sum Cations: 1135.1  Sum Anions:  984.8  Cations/Anions: 1.15   Tot. P:  28.0
Tot. Al:   10.0    Ext. Al:    1.0    Fe:   60.0      Mn:     0.0     SiO2:  2.79

ID: 203-007   Name: WASHUSK LAKE #1                   State: MN  Date: 13OCT84
Sample Type: REGULAR            Latitude: 47-14'55"N    Longitude: 92-16'52"W
Elevation:  427   Surface Temp:    *  Stratified: MIXED      Site Depth:   0.9
Lake Area:      13 Watershed Area:     420 WA/LA:     33.6 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  0.6  Turbidity:    1.0       Color:  160
Closed pH: 6.78        Equil. pH: 7.82               ANC:  327.0         DOC: 20.00
Closed DIC:  3.35   Equil. DIC:  2.50   Meas. Cond:  40.0   Cal. Cond:   39.4
Ca:  217.6          Mg:  187.6       Na:    56.5        K:   9.5        NH4:  1.7
SO4:    26.6       HCO3:  217.4      Cl:     5.9     NO3:    5.6           F:  3.5
Sum Cations:  472.9  Sum Anions:  259.4  Cations/Anions: 1.82   Tot. P:  22.0
Tot. Al:  123.0    Ext. Al:   36.0    Fe:  400.0      Mn:     0.0     SiO2:  3.18

ID: 203-008   Name: SPRING LAKE                       State: MN  Date: 14OCT84
Sample Type: REGULAR            Latitude: 47-07'25"N    Longitude: 93-52'45"W
Elevation:  402   Surface Temp: 13.6  Stratified: WEAK       Site Depth:  13.1
Lake Area:      35 Watershed Area:    2942 WA/LA:     84.8 Hydro Type: DRAINAGE
Residence Time:  0.53  Secchi Depth:  3.1  Turbidity:    0.6       Color:   34
Closed pH: 8.12        Equil. pH: 8.84               ANC: 3189.0         DOC: 12.10
Closed DIC: 34.90   Equil. DIC: 32.87   Meas. Cond: 285.0   Cal. Cond:  312.7
Ca: 2085.3          Mg:  947.6       Na:   117.9        K:  28.4        NH4:  1.7
SO4:    53.3       HCO3: 2739.4      Cl:    17.2     NO3:    0.0           F:  4.9
Sum Cations: 3180.9  Sum Anions: 2852.7  Cations/Anions: 1.12   Tot. P:   8.0
Tot. Al:   18.0    Ext. Al:    4.0    Fe:    0.0      Mn:    30.0     SiO2: 11.99

ID: 203-010   Name: BERGEN LAKE                       State: MN  Date: 07OCT84
Sample Type: REGULAR            Latitude: 46-59'36"N    Longitude: 92-19'15"W
Elevation:  407   Surface Temp: 11.3  Stratified: MIXED      Site Depth:   6.7
Lake Area:      29 Watershed Area:     922 WA/LA:     31.4 Hydro Type: DRAINAGE
Residence Time:  0.37  Secchi Depth:  1.1  Turbidity:    2.1       Color:   96
Closed pH: 7.53        Equil. pH: 8.61               ANC: 1433.0         DOC: 12.90
Closed DIC: 16.19   Equil. DIC: 15.82   Meas. Cond: 143.0   Cal. Cond:  156.3
Ca:  821.4          Mg:  636.7       Na:   101.4        K:  16.9        NH4:  7.2
SO4:    57.5       HCO3: 1334.5      Cl:    20.0     NO3:    6.5           F:  6.5
Sum Cations: 1583.5  Sum Anions: 1432.6  Cations/Anions: 1.11   Tot. P:  50.0
Tot. Al:    9.0    Ext. Al:    2.0    Fe:  550.0      Mn:    10.0     SiO2: 11.76
```

(continued)

TABLE 3-1 (continued)

```
ID: 203-011   Name: WREN LAKE                         State: MN  Date: 14OCT84
Sample Type: REGULAR           Latitude: 46-52'20"N   Longitude: 93-53'45"W
Elevation:  417   Surface Temp: 14.1  Stratified: MIXED     Site Depth:   0.9
Lake Area:      19 Watershed Area:     161 WA/LA:      8.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.9  Turbidity:   0.8     Color:    71
Closed pH: 5.83        Equil. pH: 6.71             ANC:   49.0        DOC: 14.50
Closed DIC:  1.89   Equil. DIC:  0.28   Meas. Cond:  10.8  Cal. Cond:    8.2
Ca:   42.9           Mg:   41.1         Na:    12.2        K:  11.5     NH4:   0.0
SO4:    2.1      HCO3:   23.3        Cl:    2.8       NO3:   0.0          F:   1.3
Sum Cations:  109.1  Sum Anions:    29.5  Cations/Anions: 3.70  Tot. P:  20.0
Tot. Al:   74.0   Ext. Al:  31.0   Fe:  130.0    Mn:    70.0   SiO2:  0.38

ID: 203-012   Name: PRAIRIE LAKE                      State: MN  Date: 13OCT84
Sample Type: REGULAR           Latitude: 46-47'30"N   Longitude: 92-54'15"W
Elevation:  388   Surface Temp: 12.4  Stratified: MIXED     Site Depth:  11.6
Lake Area:     315 Watershed Area:   9161 WA/LA:     29.1 Hydro Type: DRAINAGE
Residence Time:  1.23  Secchi Depth:  1.1  Turbidity:   3.1     Color:    93
Closed pH: 7.35        Equil. pH: 8.43             ANC: 1129.0        DOC: 17.20
Closed DIC: 12.32   Equil. DIC: 11.98   Meas. Cond: 113.0  Cal. Cond: 123.0
Ca:  693.1           Mg:  465.6         Na:   102.7        K:  16.4     NH4:   3.3
SO4:   34.6      HCO3:  985.5        Cl:   38.1       NO3:   3.7          F:   4.1
Sum Cations: 1281.1  Sum Anions: 1073.6  Cations/Anions: 1.19  Tot. P:  30.0
Tot. Al:   26.0   Ext. Al:   2.0   Fe:  180.0    Mn:    30.0   SiO2:  5.33

ID: 203-013   Name: LITTLE PINE LAKE                  State: MN  Date: 14OCT84
Sample Type: REGULAR           Latitude: 46-42'15"N   Longitude: 94-04'00"W
Elevation:  375   Surface Temp: 14.2  Stratified: MIXED     Site Depth:  10.7
Lake Area:     128 Watershed Area:  34475 WA/LA:    268.9 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  2.6  Turbidity:   1.3     Color:    25
Closed pH: 8.08        Equil. pH: 8.79             ANC: 2531.0        DOC:  6.10
Closed DIC: 27.34   Equil. DIC: 26.39   Meas. Cond: 226.0  Cal. Cond: 227.6
Ca: 1511.5           Mg:  403.9         Na:   160.1        K:  28.9     NH4:   5.0
SO4:   44.1      HCO3: 2206.1        Cl:   22.0       NO3:   3.2          F:   6.5
Sum Cations: 2109.3  Sum Anions: 2308.5  Cations/Anions: 0.91  Tot. P:  17.0
Tot. Al:    5.0   Ext. Al:   6.0   Fe:   50.0    Mn:    10.0   SiO2: 10.33

ID: 203-014   Name: LONG LAKE                         State: MN  Date: 13OCT84
Sample Type: REGULAR           Latitude: 46-38'50"N   Longitude: 93-27'30"W
Elevation:  379   Surface Temp: 13.5  Stratified: MIXED     Site Depth:   6.7
Lake Area:      13 Watershed Area:      57 WA/LA:      4.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.1  Turbidity:   0.7     Color:    35
Closed pH: 6.48        Equil. pH: 6.85             ANC:  105.0        DOC: 11.30
Closed DIC:  1.21   Equil. DIC:  0.88   Meas. Cond:  27.8  Cal. Cond:   26.1
Ca:   64.9           Mg:   70.7         Na:    95.7        K:  30.7     NH4:   0.6
SO4:   35.4      HCO3:   64.2        Cl:   72.5       NO3:   0.0          F:   1.8
Sum Cations:  262.7  Sum Anions:   174.0  Cations/Anions: 1.51  Tot. P:  15.0
Tot. Al:   36.0   Ext. Al:  13.0   Fe:   40.0    Mn:     0.0   SiO2:  0.07

ID: 203-017   Name: (NO NAME)                         State: MN  Date: 14OCT84
Sample Type: REGULAR           Latitude: 46-23'30"N   Longitude: 93-58'00"W
Elevation:  378   Surface Temp: 16.0  Stratified: MIXED     Site Depth:   1.5
Lake Area:      12 Watershed Area:      57 WA/LA:      4.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.9  Turbidity:   2.3     Color:    25
Closed pH: 7.88        Equil. pH: 8.10             ANC:  360.0        DOC: 10.40
Closed DIC:  3.64   Equil. DIC:  3.62   Meas. Cond:  44.0  Cal. Cond:   43.6
Ca:  258.0           Mg:  125.9         Na:    36.1        K:  22.2     NH4:   0.0
SO4:   42.7      HCO3:  287.5        Cl:   22.3       NO3:   0.0          F:   2.5
Sum Cations:  442.2  Sum Anions:   355.6  Cations/Anions: 1.24  Tot. P:  19.0
Tot. Al:   47.0   Ext. Al:  30.0   Fe:   20.0    Mn:     0.0   SiO2:  0.32
```

(continued)

TABLE 3-1 (continued)

```
ID: 203-018   Name: STAR LAKE                              State: WI  Date: 01NOV84
Sample Type: REGULAR            Latitude: 46-23'15"N   Longitude: 91-13'15"W
Elevation:  340   Surface Temp:  6.8  Stratified: MIXED      Site Depth:  14.3
Lake Area:      85 Watershed Area:     368 WA/LA:      4.3 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  4.8   Turbidity:   0.5      Color:   18
Closed pH: 7.55       Equil. pH: 8.09              ANC:  614.0          DOC:  5.80
Closed DIC:  7.43   Equil. DIC:  6.96    Meas. Cond:  65.1   Cal. Cond:  66.6
Ca:  402.2          Mg:  214.7       Na:    30.9        K:  13.0        NH4:  5.5
SO4:    33.7      HCO3:  553.8       Cl:     7.9      NO3:   2.0          F:  1.7
Sum Cations:  666.4  Sum Anions:  601.3  Cations/Anions: 1.11   Tot. P:  52.0
Tot. Al:    10.0    Ext. Al:    2.0     Fe:    20.0     Mn:     0.0    SiO2:  8.29

ID: 203-019   Name: TANK LAKE                              State: WI  Date: 01NOV84
Sample Type: REGULAR            Latitude: 46-22'07"N   Longitude: 91-08'10"W
Elevation:  331   Surface Temp:  4.2  Stratified: MIXED      Site Depth:   2.1
Lake Area:      10 Watershed Area:     344 WA/LA:     34.8 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  1.6   Turbidity:   1.1      Color:  105
Closed pH: 6.12       Equil. pH: 6.45              ANC:   50.0          DOC: 13.20
Closed DIC:  0.60   Equil. DIC:  0.32    Meas. Cond:  36.3   Cal. Cond:  34.0
Ca:   84.3          Mg:    60.9      Na:   143.5        K:  19.7        NH4:  2.2
SO4:    51.2      HCO3:    12.5      Cl:   155.2      NO3:   0.0          F:  1.1
Sum Cations:  311.8  Sum Anions:  219.9  Cations/Anions: 1.42   Tot. P:  37.0
Tot. Al:  294.0    Ext. Al:   74.0     Fe:   200.0     Mn:     0.0    SiO2:  0.50

ID: 203-020   Name: NORTHEAST LAKE                         State: WI  Date: 01NOV84
Sample Type: REGULAR            Latitude: 46-16'10"N   Longitude: 91-12'30"W
Elevation:  420   Surface Temp:  7.0  Stratified: MIXED      Site Depth:  15.5
Lake Area:      36 Watershed Area:     106 WA/LA:      3.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.3   Turbidity:   0.6      Color:   29
Closed pH: 7.20       Equil. pH: 7.98              ANC:  516.0          DOC:  6.00
Closed DIC:  6.67   Equil. DIC:  5.90    Meas. Cond:  58.5   Cal. Cond:  59.6
Ca:  377.2          Mg:  163.7       Na:    34.8        K:   7.9        NH4:  5.5
SO4:    48.9      HCO3:  464.2       Cl:    11.8      NO3:   1.7          F:  1.3
Sum Cations:  589.3  Sum Anions:  528.9  Cations/Anions: 1.11   Tot. P:  18.0
Tot. Al:    22.0    Ext. Al:    1.0     Fe:    70.0     Mn:     0.0    SiO2:  0.64

ID: 203-022   Name: PARLEMEE LAKE                          State: MI  Date: 13OCT84
Sample Type: REGULAR            Latitude: 46-13'40"N   Longitude: 88-00'45"W
Elevation:  426   Surface Temp: 12.9  Stratified: MIXED      Site Depth:   6.1
Lake Area:       8 Watershed Area:      41 WA/LA:      5.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  4.9   Turbidity:   0.6      Color:   10
Closed pH: 8.69       Equil. pH: 8.82              ANC: 2161.0          DOC:  3.90
Closed DIC: 22.06   Equil. DIC: 23.34    Meas. Cond: 248.0   Cal. Cond: 278.3
Ca: 1065.4          Mg: 1158.2       Na:   456.8        K:  22.5        NH4:  0.0
SO4:   110.3      HCO3: 1904.7       Cl:   420.3      NO3:   0.1          F:  1.9
Sum Cations: 2702.8  Sum Anions: 2484.1  Cations/Anions: 1.09   Tot. P:   4.0
Tot. Al:    15.0    Ext. Al:    8.0     Fe:     0.0     Mn:     0.0    SiO2:  2.37

ID: 203-023   Name: GIBSON LAKE                            State: MI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 46-11'59"N   Longitude: 88-26'35"W
Elevation:  443   Surface Temp:  4.3  Stratified: MIXED      Site Depth:   5.5
Lake Area:      38 Watershed Area:     184 WA/LA:      4.8 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.3   Turbidity:   1.2      Color:   20
Closed pH: 7.03       Equil. pH: 7.14              ANC:  119.0          DOC:  5.10
Closed DIC:  1.42   Equil. DIC:  1.29    Meas. Cond:  34.0   Cal. Cond:  34.0
Ca:  109.3          Mg:    89.7      Na:    67.4        K:  23.8        NH4:  0.6
SO4:    45.4      HCO3:  103.1       Cl:   121.3      NO3:   0.3          F:  1.2
Sum Cations:  290.8  Sum Anions:  271.4  Cations/Anions: 1.07   Tot. P:  15.0
Tot. Al:    32.0    Ext. Al:    1.0     Fe:    10.0     Mn:     0.0    SiO2:  0.13
```

(continued)

TABLE 3-1 (continued)

```
ID: 203-028   Name: TRIPP LAKE                          State: WI  Date: 04NOV84
Sample Type: REGULAR            Latitude: 45-54'05"N    Longitude: 91-32'15"W
Elevation:  392   Surface Temp:  2.9  Stratified: MIXED      Site Depth:   5.2
Lake Area:      18 Watershed Area:     329 WA/LA:     18.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.9   Turbidity:   1.5      Color:  100
Closed pH: 7.07       Equil. pH: 7.85              ANC:  360.0         DOC: 13.30
Closed DIC:  4.73   Equil. DIC:  3.82    Meas. Cond:  43.6   Cal. Cond:  42.8
Ca:  233.5           Mg:  167.8       Na:    43.9         K:  17.1      NH4: 10.0
SO4:     6.9       HCO3:  316.5       Cl:    12.1       NO3:   1.4         F:  1.8
Sum Cations:  472.5  Sum Anions:  339.1  Cations/Anions: 1.39   Tot. P:  21.0
Tot. Al:   20.0    Ext. Al:   4.0    Fe:  330.0      Mn:     0.0    SiO2:  4.15

ID: 203-029   Name: DIKE 485 FLOWAGE                    State: WI  Date: 28OCT84
Sample Type: REGULAR            Latitude: 45-50'39"N    Longitude: 92-39'37"W
Elevation:  285   Surface Temp:  7.4  Stratified: MIXED      Site Depth:   0.9
Lake Area:      46 Watershed Area:     790 WA/LA:     17.1 Hydro Type: RESERVOIR
Residence Time:  0.15  Secchi Depth:  0.6   Turbidity:   5.6      Color:  110
Closed pH: 6.97       Equil. pH: 7.50              ANC:  184.0         DOC: 10.20
Closed DIC:  1.97   Equil. DIC:  1.81    Meas. Cond:  27.2   Cal. Cond:  25.3
Ca:  101.8           Mg:   91.3       Na:    45.2         K:  21.0      NH4: 11.6
SO4:    20.6       HCO3:  127.3       Cl:    17.2       NO3:  13.7         F:  2.2
Sum Cations:  271.1  Sum Anions:  181.1  Cations/Anions: 1.50   Tot. P:  32.0
Tot. Al:   52.0    Ext. Al:   2.0    Fe:  430.0      Mn:     0.0    SiO2:  1.37

ID: 203-031   Name: WEST BASS LAKE                      State: WI  Date: 25OCT84
Sample Type: REGULAR            Latitude: 45-46'45"N    Longitude: 88-20'10"W
Elevation:  395   Surface Temp:  7.0  Stratified: MIXED      Site Depth:   4.7
Lake Area:      22 Watershed Area:     332 WA/LA:     15.1 Hydro Type: DRAINAGE
Residence Time:  0.49  Secchi Depth:  3.3   Turbidity:   0.6      Color:   15
Closed pH: 8.34       Equil. pH: 8.58              ANC: 1807.5         DOC:  2.54
Closed DIC: 20.51   Equil. DIC: 19.15    Meas. Cond: 198.0   Cal. Cond: 223.0
Ca: 1157.7           Mg:  871.1       Na:    83.5         K:  27.6      NH4:  0.6
SO4:   292.7       HCO3: 1610.7       Cl:    59.0       NO3:   0.5         F:  6.1
Sum Cations: 2140.5  Sum Anions: 1993.8  Cations/Anions: 1.07   Tot. P:  12.0
Tot. Al:    7.0    Ext. Al:   2.0    Fe:   10.0      Mn:     0.0    SiO2:  9.87

ID: 203-035   Name: HEADQUARTERS LAKE                   State: WI  Date: 25OCT84
Sample Type: REGULAR            Latitude: 45-36'05"N    Longitude: 87-57'37"W
Elevation:  285   Surface Temp:  7.0  Stratified: MIXED      Site Depth:   2.2
Lake Area:      16 Watershed Area:     179 WA/LA:     11.0 Hydro Type: DRAINAGE
Residence Time:  0.48  Secchi Depth:  2.2   Turbidity:   0.4      Color:   15
Closed pH: 8.18       Equil. pH: 8.48              ANC: 1472.9         DOC:  8.98
Closed DIC: 16.62   Equil. DIC: 17.55    Meas. Cond: 144.7   Cal. Cond: 158.1
Ca:  964.1           Mg:  575.8       Na:    20.4         K:   5.1      NH4:  6.1
SO4:    50.0       HCO3: 1398.4       Cl:    11.3       NO3:   0.6         F:  1.9
Sum Cations: 1571.5  Sum Anions: 1478.9  Cations/Anions: 1.06   Tot. P:   6.0
Tot. Al:   13.0    Ext. Al:   9.0    Fe:    0.0      Mn:    10.0    SiO2:  0.38

ID: 203-036   Name: WINTERGREEN LAKE                    State: WI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 45-35'40"N    Longitude: 92-11'13"W
Elevation:  387   Surface Temp:  2.1  Stratified: MIXED      Site Depth:   3.0
Lake Area:      17 Watershed Area:      83 WA/LA:      5.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.8   Turbidity:   2.2      Color:  125
Closed pH: 6.61       Equil. pH: 7.20              ANC:  120.0         DOC: 15.20
Closed DIC:  1.24   Equil. DIC:  0.98    Meas. Cond:  25.8   Cal. Cond:  22.8
Ca:   87.3           Mg:   68.3       Na:    25.2         K:  51.1      NH4: 16.6
SO4:    29.1       HCO3:   67.5       Cl:    26.8       NO3:   3.4         F:  0.9
Sum Cations:  248.9  Sum Anions:  127.8  Cations/Anions: 1.95   Tot. P:  54.0
Tot. Al:  166.0    Ext. Al:  30.0    Fe:  180.0      Mn:     0.0    SiO2:  0.46
```

(continued)

TABLE 3-1 (continued)

```
ID: 203-039   Name: JOEL FLOWAGE                     State: WI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 45-23'29"N    Longitude: 92-13'02"W
Elevation:  351   Surface Temp:  1.7  Stratified: MIXED      Site Depth:   1.2
Lake Area:      28 Watershed Area:   2201 WA/LA:    78.9 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.2  Turbidity:   2.0      Color:    52
Closed pH: 8.00        Equil. pH: 8.72             ANC: 1722.0        DOC:  9.50
Closed DIC: 20.10   Equil. DIC: 19.52    Meas. Cond: 188.4   Cal. Cond: 204.5
Ca: 1068.9          Mg:  690.2       Na:  135.7         K:  64.4      NH4:  1.7
SO4:    58.5      HCO3: 1594.4       Cl:  200.3       NO3:   8.4        F:  4.5
Sum Cations: 1960.8  Sum Anions: 1879.4  Cations/Anions: 1.04   Tot. P:  31.0
Tot. Al:    28.0     Ext. Al:  19.0     Fe:  160.0      Mn:     0.0   SiO2:  2.78

ID: 203-040   Name: MOOSE EAR LAKE                   State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 45-19'50"N    Longitude: 91-34'24"W
Elevation:  319   Surface Temp:  3.2  Stratified: MIXED      Site Depth:   1.2
Lake Area:       8 Watershed Area:  12012 WA/LA:  1501.5 Hydro Type: DRAINAGE
Residence Time:  0.00  Secchi Depth:  0.7  Turbidity:   5.0      Color:    64
Closed pH: 7.17        Equil. pH: 8.38             ANC:  765.0        DOC:  5.90
Closed DIC:   9.46  Equil. DIC:  8.21    Meas. Cond: 101.2   Cal. Cond: 104.7
Ca:  523.9          Mg:  341.4       Na:  109.2         K:  24.5      NH4:  3.3
SO4:    93.3      HCO3:  705.1       Cl:   91.1       NO3:  24.8        F:  3.3
Sum Cations: 1002.4  Sum Anions:  919.3  Cations/Anions: 1.09   Tot. P: 107.0
Tot. Al:   173.0     Ext. Al:   9.0     Fe:  440.0      Mn:    60.0   SiO2: 13.40

ID: 203-041   Name: SOUTH TWIN LAKE                  State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 45-16'22"N    Longitude: 90-26'16"W
Elevation:  440   Surface Temp:  5.3  Stratified: MIXED      Site Depth:  14.3
Lake Area:      10 Watershed Area:     31 WA/LA:     3.1 Hydro Type: DRAINAGE
Residence Time:  4.71  Secchi Depth:  4.5  Turbidity:   0.3      Color:    15
Closed pH: 6.65        Equil. pH: 7.51             ANC:  109.6        DOC:  4.60
Closed DIC:   1.77  Equil. DIC:  1.29    Meas. Cond:  23.8   Cal. Cond:  24.4
Ca:  104.3          Mg:   65.0       Na:   23.1         K:  16.1      NH4:  4.4
SO4:    75.2      HCO3:  103.8       Cl:   16.9       NO3:   1.1        F:  1.1
Sum Cations:  213.1  Sum Anions:  198.2  Cations/Anions: 1.08   Tot. P:   8.0
Tot. Al:    18.0     Ext. Al:   1.0     Fe:   20.0      Mn:     0.0   SiO2:  0.42

ID: 203-042   Name: ANDERSON LAKE                    State: WI  Date: 07NOV84
Sample Type: REGULAR            Latitude: 45-12'15"N    Longitude: 90-35'23"W
Elevation:  431   Surface Temp:  3.7  Stratified: MIXED      Site Depth:   8.8
Lake Area:      17 Watershed Area:    679 WA/LA:    39.0 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  1.7  Turbidity:   1.3      Color:    90
Closed pH: 7.41        Equil. pH: 8.43             ANC:  935.8        DOC: 11.90
Closed DIC: 14.38   Equil. DIC: 10.35    Meas. Cond: 100.3   Cal. Cond: 109.7
Ca:  571.9          Mg:  333.2       Na:  109.2         K:  31.7      NH4: 24.4
SO4:    51.8      HCO3:  870.8       Cl:   62.9       NO3:   4.2        F:  3.5
Sum Cations: 1070.3  Sum Anions:  997.3  Cations/Anions: 1.07   Tot. P:  95.0
Tot. Al:    50.0     Ext. Al:   4.0     Fe:  490.0      Mn:    10.0   SiO2:  6.28

ID: 203-044   Name: EATON LAKE                       State: MI  Date: 22OCT84
Sample Type: REGULAR            Latitude: 45-10'00"N    Longitude: 85-16'15"W
Elevation:  233   Surface Temp: 11.1  Stratified: MIXED      Site Depth:  12.2
Lake Area:       8 Watershed Area:    127 WA/LA:    15.1 Hydro Type: DRAINAGE
Residence Time:  1.32  Secchi Depth:  1.7  Turbidity:   1.3      Color:    40
Closed pH: 7.82        Equil. pH: 8.85             ANC: 2927.0        DOC:  8.85
Closed DIC: 32.37   Equil. DIC: 31.06    Meas. Cond: 300.1   Cal. Cond: 329.0
Ca: 1996.0          Mg:  930.4       Na:  120.3         K:  92.3      NH4:  6.4
SO4:   167.3      HCO3: 2601.4       Cl:  219.5       NO3:   2.8        F:  5.5
Sum Cations: 3145.3  Sum Anions: 3015.5  Cations/Anions: 1.04   Tot. P:  47.0
Tot. Al:    12.0     Ext. Al:   0.0     Fe:    0.0      Mn:     0.0   SiO2:  4.81
```

(continued)

TABLE 3-1 (continued)

```
                                                  State: MI   Date: 22OCT84
ID: 203-045    Name: JACKSON LAKE             Longitude: 84-09'40"W
Sample Type: REGULAR         Latitude: 45-05'10"N
Elevation:  272    Surface Temp: 11.4  Stratified: MIXED    Site Depth:   6.1
Lake Area:        11 Watershed Area:     246 WA/LA:     22.6 Hydro Type: SEEPAGE
Residence Time:    *     Secchi Depth:   4.6   Turbidity:    0.4     Color:    15
Closed pH: 8.07          Equil. pH: 8.69            ANC: 1665.0          DOC:  8.00
Closed DIC: 19.02    Equil. DIC: 19.21      Meas. Cond: 177.2    Cal. Cond: 194.5
Ca: 1235.5              Mg:   554.4      Na:    38.7          K:   14.7     NH4:   3.3
SO4:   185.3         HCO3: 1585.4        Cl:    20.6        NO3:    0.0       F:   3.3
Sum Cations: 1846.7  Sum Anions: 1812.3  Cations/Anions: 1.02   Tot. P:   2.0
Tot. Al:    22.0    Ext. Al:    5.0    Fe:    20.0    Mn:      0.0    SiO2:  2.40
```

```
                                                  State: MI   Date: 22OCT84
ID: 203-046    Name: CLIFFORD LAKE             Longitude: 84-38'10"W
Sample Type: REGULAR         Latitude: 45-01'40"N
Elevation:  375    Surface Temp: 11.6  Stratified: MIXED    Site Depth:   7.6
Lake Area:         5 Watershed Area:      83 WA/LA:     16.3 Hydro Type: SEEPAGE
Residence Time:    *     Secchi Depth:   4.7   Turbidity:    0.5     Color:    10
Closed pH: 8.16          Equil. pH: 8.84            ANC: 2716.0          DOC:  4.00
Closed DIC: 27.32    Equil. DIC: 28.07      Meas. Cond: 304.3    Cal. Cond: 340.2
Ca: 1707.9              Mg:   997.0      Na:   379.3          K:   16.1     NH4:   5.5
SO4:   204.2         HCO3: 2306.1        Cl:   573.2        NO3:    0.4       F:   2.7
Sum Cations: 3105.9  Sum Anions: 3120.8  Cations/Anions: 1.00   Tot. P:   2.0
Tot. Al:    11.0    Ext. Al:    0.0    Fe:     0.0    Mn:      0.0    SiO2:  3.87
```

```
                                                  State: MI   Date: 22OCT84
ID: 203-047    Name: GINSEL LAKE              Longitude: 84-29'52"W
Sample Type: REGULAR         Latitude: 44-59'32"N
Elevation:  377    Surface Temp: 10.6  Stratified: WEAK     Site Depth:  10.4
Lake Area:         5 Watershed Area:      44 WA/LA:      9.8 Hydro Type: SEEPAGE
Residence Time:    *     Secchi Depth:   1.1   Turbidity:    2.3     Color:    40
Closed pH: 5.65          Equil. pH: 5.98            ANC:   23.0          DOC:  9.40
Closed DIC:  0.68    Equil. DIC:  0.15      Meas. Cond:  18.7    Cal. Cond:  18.1
Ca:    77.8             Mg:    40.3      Na:    13.0          K:   21.4     NH4:   1.7
SO4:    80.4         HCO3:    7.8        Cl:    16.9        NO3:    0.0       F:   1.2
Sum Cations:  156.7  Sum Anions:  106.3  Cations/Anions: 1.47   Tot. P:  20.0
Tot. Al:    31.0    Ext. Al:    5.0    Fe:    20.0    Mn:     40.0    SiO2:  0.29
```

```
                                                  State: MI   Date: 22OCT84
ID: 203-048    Name: SAGE LAKES (LG CENTRAL)  Longitude: 84-09'10"W
Sample Type: REGULAR         Latitude: 44-53'30"N
Elevation:  290    Surface Temp: 10.9  Stratified: MIXED    Site Depth:  10.0
Lake Area:         8 Watershed Area:     231 WA/LA:     30.8 Hydro Type: DRAINAGE
Residence Time:  0.56    Secchi Depth:   9.0   Turbidity:    0.3     Color:    10
Closed pH: 8.07          Equil. pH: 8.90            ANC: 4002.0          DOC:  2.30
Closed DIC: 44.23    Equil. DIC: 43.47      Meas. Cond: 372.6    Cal. Cond: 425.1
Ca: 2770.0              Mg:  1260.4      Na:    78.3          K:   13.9     NH4:   0.0
SO4:   222.8         HCO3: 3700.5        Cl:    31.0        NO3:    0.0       F:   4.9
Sum Cations: 4122.5  Sum Anions: 4010.2  Cations/Anions: 1.03   Tot. P:   2.0
Tot. Al:     8.0    Ext. Al:    0.0    Fe:     0.0    Mn:      0.0    SiO2:  5.37
```

```
                                                  State: MI   Date: 22OCT84
ID: 203-049    Name: BASS LAKE                Longitude: 84-53'01"W
Sample Type: REGULAR         Latitude: 44-48'06"N
Elevation:  367    Surface Temp: 11.5  Stratified: MIXED    Site Depth:  11.9
Lake Area:        21 Watershed Area:     515 WA/LA:     24.8 Hydro Type: SEEPAGE
Residence Time:    *     Secchi Depth:   4.7   Turbidity:    0.4     Color:    10
Closed pH: 8.08          Equil. pH: 8.84            ANC: 2670.0          DOC:  3.30
Closed DIC: 29.11    Equil. DIC: 29.22      Meas. Cond: 251.6    Cal. Cond: 275.5
Ca: 1790.4              Mg:   742.8      Na:    60.9          K:   16.5     NH4:   4.4
SO4:    79.9         HCO3: 2434.2        Cl:   102.4        NO3:    0.5       F:   2.3
Sum Cations: 2615.1  Sum Anions: 2652.9  Cations/Anions: 0.99   Tot. P:   5.0
Tot. Al:     9.0    Ext. Al:    0.0    Fe:    10.0    Mn:      0.0    SiO2:  6.21
```

(continued)

TABLE 3-1 (continued)

```
ID: 203-051   Name: NIOBE LAKE                      State: WI  Date: 05NOV84
Sample Type: REGULAR            Latitude: 45-07'20"N    Longitude: 88-54'14"W
Elevation:  399   Surface Temp:  3.3  Stratified: MIXED     Site Depth:   4.9
Lake Area:      13 Watershed Area:    186 WA/LA:     14.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.3   Turbidity:   0.7     Color:   20
Closed pH: 8.20       Equil. pH: 8.58              ANC: 2123.7        DOC:  6.30
Closed DIC: 23.89   Equil. DIC: 25.00    Meas. Cond: 208.5   Cal. Cond: 234.3
Ca: 1050.9          Mg: 1064.4      Na:   51.8         K:  33.0      NH4:  18.7
SO4:   118.0      HCO3: 2138.5      Cl:   21.7       NO3:   1.5        F:   8.9
Sum Cations: 2218.8  Sum Anions: 2319.0  Cations/Anions: 0.96   Tot. P:  11.0
Tot. Al:     2.0   Ext. Al:   9.0    Fe:     0.0     Mn:     0.0    SiO2:  3.03
```

```
ID: 203-052   Name: COMSTOCK LAKE                   State: MN  Date: 13OCT84
Sample Type: REGULAR            Latitude: 47-13'15"N    Longitude: 92-13'30"W
Elevation:  425   Surface Temp: 13.3  Stratified: MIXED     Site Depth:   7.6
Lake Area:     108 Watershed Area:   5548 WA/LA:     51.4 Hydro Type: DRAINAGE
Residence Time:  0.26  Secchi Depth:  1.5   Turbidity:   1.9     Color:   92
Closed pH: 7.39       Equil. pH: 8.31              ANC:  853.5        DOC: 14.80
Closed DIC:  9.15   Equil. DIC:  9.46    Meas. Cond:  90.6   Cal. Cond:  98.1
Ca:  522.5          Mg:  388.3      Na:   91.3         K:  16.4      NH4:   0.0
SO4:    59.3      HCO3:  762.2      Cl:   18.3       NO3:   0.0        F:   5.9
Sum Cations: 1018.4  Sum Anions:  850.5  Cations/Anions: 1.20   Tot. P:  22.0
Tot. Al:    20.0   Ext. Al:   4.0    Fe:   190.0     Mn:     0.0    SiO2:  5.22
```

```
ID: 203-053   Name: BIG ROUND LAKE                  State: WI  Date: 03NOV84
Sample Type: REGULAR            Latitude: 45-31'34"N    Longitude: 92-18'00"W
Elevation:  351   Surface Temp:  3.3  Stratified: MIXED     Site Depth:   4.3
Lake Area:     413 Watershed Area:   5488 WA/LA:     13.3 Hydro Type: DRAINAGE
Residence Time:  0.84  Secchi Depth:  1.9   Turbidity:   1.5     Color:   13
Closed pH: 7.98       Equil. pH: 8.76              ANC: 1949.0        DOC:  4.10
Closed DIC: 22.51   Equil. DIC: 22.20    Meas. Cond: 194.2   Cal. Cond: 210.2
Ca: 1184.1          Mg:  709.9      Na:  116.3         K:  21.5      NH4:   0.6
SO4:    89.1      HCO3: 1787.6      Cl:   77.9       NO3:  13.2        F:   3.8
Sum Cations: 2032.3  Sum Anions: 1985.8  Cations/Anions: 1.02   Tot. P:  27.0
Tot. Al:    10.0   Ext. Al:  10.0    Fe:    20.0     Mn:     0.0    SiO2: 22.60
```

```
ID: 203-055   Name: STEVENS LAKE                    State: MN  Date: 28OCT84
Sample Type: REGULAR            Latitude: 47-20'00"N    Longitude: 93-42'30"W
Elevation:  390   Surface Temp:  5.1  Stratified: MIXED     Site Depth:   1.2
Lake Area:      93 Watershed Area:   1637 WA/LA:     17.7 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  1.0   Turbidity:   1.6     Color:   73
Closed pH: 7.86       Equil. pH: 8.67              ANC: 1451.0        DOC: 14.60
Closed DIC: 15.30   Equil. DIC: 15.07    Meas. Cond: 137.7   Cal. Cond: 153.7
Ca:  942.6          Mg:  525.6      Na:   90.5         K:  26.6      NH4:   0.6
SO4:    70.4      HCO3: 1234.2      Cl:   23.4       NO3:   2.0        F:   3.2
Sum Cations: 1585.9  Sum Anions: 1341.2  Cations/Anions: 1.18   Tot. P:  19.0
Tot. Al:    29.0   Ext. Al:   1.0    Fe:    40.0     Mn:     0.0    SiO2:  2.27
```

```
ID: 203-056   Name: BLUE LAKE                       State: MI  Date: 22OCT84
Sample Type: REGULAR            Latitude: 44-44'47"N    Longitude: 85-09'30"W
Elevation:  312   Surface Temp:  9.8  Stratified: MIXED     Site Depth:   3.1
Lake Area:      11 Watershed Area:    181 WA/LA:     17.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.1   Turbidity:   0.6     Color:   15
Closed pH: 8.32       Equil. pH: 8.70              ANC: 1687.0        DOC:  6.10
Closed DIC: 19.06   Equil. DIC: 19.39    Meas. Cond: 191.9   Cal. Cond: 210.1
Ca: 1399.7          Mg:  437.6      Na:   88.7         K:  18.0      NH4:   3.3
SO4:   130.1      HCO3: 1576.8      Cl:  200.0       NO3:   0.0        F:   1.3
Sum Cations: 1947.4  Sum Anions: 1933.3  Cations/Anions: 1.01   Tot. P:   2.0
Tot. Al:     8.0   Ext. Al:   1.0    Fe:     0.0     Mn:     0.0    SiO2:  5.00
```

(continued)

TABLE 3-1 (continued)

```
ID: 203-057   Name: LAKE NINETEEN                      State: WI  Date: 07NOV84
Sample Type: REGULAR              Latitude: 45-14'27"N    Longitude: 90-32'10"W
Elevation:  446   Surface Temp:  4.8  Stratified: MIXED      Site Depth:  14.3
Lake Area:       7 Watershed Area:      18 WA/LA:       2.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.9  Turbidity:   0.7       Color:    50
Closed pH: 6.33       Equil. pH: 7.24              ANC:   90.5          DOC:  7.60
Closed DIC:  2.16   Equil. DIC:  1.08    Meas. Cond:  24.8   Cal. Cond:  23.8
Ca:  105.3          Mg:   72.4       Na:    31.3         K:  15.9       NH4:  0.0
SO4:   76.2       HCO3:   71.5       Cl:   18.6        NO3:   0.5          F:  0.8
Sum Cations:  225.3  Sum Anions:   167.6  Cations/Anions: 1.34   Tot. P:  17.0
Tot. Al:   45.0    Ext. Al:   10.0     Fe:   150.0      Mn:    40.0    SiO2:  0.75

ID: 203-059   Name: KELLEYS LAKE                       State: WI  Date: 03NOV84
Sample Type: REGULAR              Latitude: 45-36'59"N    Longitude: 92-08'50"W
Elevation:  401   Surface Temp:  1.6  Stratified: MIXED      Site Depth:   1.5
Lake Area:       7 Watershed Area:      67 WA/LA:       9.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.5  Turbidity:   1.0       Color:    59
Closed pH: 6.25       Equil. pH: 6.81              ANC:   50.0          DOC: 10.20
Closed DIC:  0.60   Equil. DIC:  0.40    Meas. Cond:  13.5   Cal. Cond:  10.7
Ca:   49.4          Mg:   40.3       Na:    12.2         K:  11.0       NH4:  0.6
SO4:   25.4       HCO3:   19.9       Cl:   11.8        NO3:   0.0          F:  0.7
Sum Cations:  114.3  Sum Anions:    57.8  Cations/Anions: 1.98   Tot. P:  26.0
Tot. Al:   65.0    Ext. Al:   19.0     Fe:    50.0      Mn:     0.0    SiO2:  0.32

ID: 203-060   Name: LOWER HOLLY LAKE                   State: WI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 45-50'28"N    Longitude: 91-28'08"W
Elevation:  397   Surface Temp:  2.3  Stratified: MIXED      Site Depth:   3.4
Lake Area:      19 Watershed Area:      78 WA/LA:       4.1 Hydro Type: DRAINAGE
Residence Time:  0.96  Secchi Depth:  1.4  Turbidity:   1.2       Color:    56
Closed pH: 6.68       Equil. pH: 7.24              ANC:   91.0          DOC:  9.70
Closed DIC:  1.11   Equil. DIC:  0.94    Meas. Cond:  21.5   Cal. Cond:  19.3
Ca:   88.8          Mg:   56.8       Na:    37.0         K:  16.9       NH4:  1.1
SO4:   38.3       HCO3:   51.7       Cl:   29.6        NO3:   0.0          F:  0.9
Sum Cations:  200.9  Sum Anions:   120.6  Cations/Anions: 1.67   Tot. P:  29.0
Tot. Al:   47.0    Ext. Al:   13.0     Fe:   200.0      Mn:     0.0    SiO2:  0.00

ID: 203-062   Name: CHIPPANAZIE LAKE                   State: WI  Date: 04NOV84
Sample Type: REGULAR              Latitude: 46-02'21"N    Longitude: 91-33'34"W
Elevation:  358   Surface Temp:  3.3  Stratified: MIXED      Site Depth:   8.3
Lake Area:      23 Watershed Area:    2802 WA/LA:     120.3 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  1.0  Turbidity:   1.9       Color:   120
Closed pH: 7.47       Equil. pH: 8.47              ANC:  978.0          DOC: 15.30
Closed DIC: 11.61   Equil. DIC: 10.22    Meas. Cond: 106.7   Cal. Cond: 117.5
Ca:  693.6          Mg:  370.2       Na:    83.1         K:  15.3       NH4:  5.0
SO4:   56.2       HCO3:  894.8       Cl:   76.2        NO3:   6.7          F:  2.4
Sum Cations: 1167.2  Sum Anions:  1039.0  Cations/Anions: 1.12   Tot. P:  37.0
Tot. Al:   49.0    Ext. Al:   14.0     Fe:   500.0      Mn:    20.0    SiO2: 12.00

ID: 203-064   Name: BLACKWOOD LAKE                     State: MN  Date: 13OCT84
Sample Type: REGULAR              Latitude: 46-46'48"N    Longitude: 92-53'10"W
Elevation:  392   Surface Temp: 12.5  Stratified: WEAK       Site Depth:   7.9
Lake Area:      11 Watershed Area:     142 WA/LA:      13.0 Hydro Type: DRAINAGE
Residence Time:  1.58  Secchi Depth:  2.4  Turbidity:   0.7       Color:    45
Closed pH: 7.35       Equil. pH: 8.39              ANC: 1152.0          DOC: 10.70
Closed DIC: 12.72   Equil. DIC: 12.49    Meas. Cond: 119.3   Cal. Cond: 130.7
Ca:  723.1          Mg:  395.3       Na:   140.5         K:  16.1       NH4:  0.0
SO4:   36.3       HCO3: 1016.3       Cl:  126.0        NO3:   0.6          F:  3.8
Sum Cations: 1274.9  Sum Anions:  1190.5  Cations/Anions: 1.07   Tot. P:  13.0
Tot. Al:    5.5    Ext. Al:    3.0     Fe:    60.0      Mn:    20.0    SiO2: 11.21
```

(continued)

TABLE 3-1 (continued)

```
ID: 2D3-065   Name: PERCH LAKE                            State: WI  Date: 25OCT84
Sample Type: REGULAR             Latitude: 45-22'19"N   Longitude: 87-59'19"W
Elevation:  233   Surface Temp:  9.2  Stratified: MIXED      Site Depth:   5.5
Lake Area:       11 Watershed Area:     163 WA/LA:     14.8 Hydro Type: SEEPAGE
Residence Time:     *   Secchi Depth:  4.7  Turbidity:   0.4      Color:    10
Closed pH: 8.57        Equil. pH: 8.73                ANC: 2859.3         DOC:  5.59
Closed DIC: 31.22   Equil. DIC: 32.92    Meas. Cond: 304.0   Cal. Cond: 328.5
Ca: 1214.6            Mg: 1748.0         Na:    80.0         K:  25.6        NH4: 15.0
SO4:   223.6       HCO3: 2757.2        Cl:   121.3        NO3:    3.4          F:   2.2
Sum Cations: 3083.2  Sum Anions: 3201.1  Cations/Anions: 0.96   Tot. P:  12.0
Tot. Al:     0.0    Ext. Al:    0.0    Fe:    10.0       Mn:     0.0     SiO2: 12.00

ID: 2D3-066   Name: KUJAWA LAKE                           State: MI  Date: 22OCT84
Sample Type: REGULAR             Latitude: 44-59'29"N   Longitude: 84-26'47"W
Elevation:  377   Surface Temp: 11.0  Stratified: MIXED      Site Depth:   3.7
Lake Area:        5 Watershed Area:      73 WA/LA:     14.3 Hydro Type: DRAINAGE
Residence Time:  0.42  Secchi Depth:  3.5  Turbidity:   0.7      Color:    15
Closed pH: 7.97        Equil. pH: 8.34                ANC:  680.3         DOC:  7.60
Closed DIC:  7.64   Equil. DIC:  7.50    Meas. Cond:  75.4   Cal. Cond:  78.7
Ca:  416.2            Mg:  324.9         Na:     9.6         K:  25.4        NH4:  0.6
SO4:    72.0       HCO3:  610.2        Cl:    13.3        NO3:    0.0          F:   1.8
Sum Cations:  776.7  Sum Anions:  701.5  Cations/Anions: 1.11   Tot. P:  11.0
Tot. Al:    62.0    Ext. Al:   28.0    Fe:    20.0       Mn:     0.0     SiO2:  0.30

ID: 2D3-068   Name: NOKAY LAKE                            State: MN  Date: 14OCT84
Sample Type: REGULAR             Latitude: 46-22'30"N   Longitude: 93-58'00"W
Elevation:  374   Surface Temp: 14.1  Stratified: MIXED      Site Depth:   8.8
Lake Area:      280 Watershed Area:    3253 WA/LA:     11.6 Hydro Type: DRAINAGE
Residence Time:  1.92  Secchi Depth:  1.4  Turbidity:   2.2      Color:    20
Closed pH: 8.53        Equil. pH: 8.84                ANC: 2465.0         DOC:  5.80
Closed DIC: 26.66   Equil. DIC: 26.35    Meas. Cond: 226.0   Cal. Cond: 246.4
Ca: 1622.2            Mg:  700.0         Na:   124.6         K:  28.6        NH4:  0.0
SO4:    34.5       HCO3: 2165.3        Cl:    30.3        NO3:    0.3          F:   5.4
Sum Cations: 2475.5  Sum Anions: 2275.3  Cations/Anions: 1.09   Tot. P:  19.5
Tot. Al:     7.5    Ext. Al:    4.0    Fe:     0.0       Mn:     0.0     SiO2: 11.60

ID: 2D3-069   Name: NORTH STAR LAKE                       State: MN  Date: 14OCT84
Sample Type: REGULAR             Latitude: 47-33'30"N   Longitude: 93-39'40"W
Elevation:  414   Surface Temp: 12.7  Stratified: WEAK       Site Depth:  18.6
Lake Area:      417 Watershed Area:    1137 WA/LA:      2.7 Hydro Type: DRAINAGE
Residence Time:  8.49  Secchi Depth:  3.3  Turbidity:   0.7      Color:    12
Closed pH: 7.99        Equil. pH: 8.75                ANC: 2372.0         DOC:  5.60
Closed DIC: 27.25   Equil. DIC: 26.15    Meas. Cond: 231.0   Cal. Cond: 252.0
Ca: 1460.1            Mg:  807.8         Na:   198.8         K:  49.1        NH4:  0.0
SO4:    22.5       HCO3: 2163.7        Cl:    93.1        NO3:    0.0          F:   4.7
Sum Cations: 2515.8  Sum Anions: 2332.4  Cations/Anions: 1.08   Tot. P:  10.0
Tot. Al:     8.0    Ext. Al:    4.0    Fe:     0.0       Mn:     0.0     SiO2:  8.03

ID: 2D3-070   Name: HERON LAKE                            State: WI  Date: 04NOV84
Sample Type: REGULAR             Latitude: 45-44'43"N   Longitude: 91-29'18"W
Elevation:  377   Surface Temp:  4.2  Stratified: MIXED      Site Depth:   5.8
Lake Area:       12 Watershed Area:     383 WA/LA:     31.6 Hydro Type: DRAINAGE
Residence Time:  0.56  Secchi Depth:  1.5  Turbidity:   1.2      Color:    64
Closed pH: 7.45        Equil. pH: 8.60                ANC: 1332.0         DOC:  9.50
Closed DIC: 16.42   Equil. DIC: 14.72    Meas. Cond: 128.8   Cal. Cond: 141.1
Ca:  814.9            Mg:  445.8         Na:    83.1         K:  17.6        NH4: 23.8
SO4:    31.0       HCO3: 1279.5        Cl:    16.1        NO3:    8.1          F:   3.1
Sum Cations: 1385.3  Sum Anions: 1343.7  Cations/Anions: 1.03   Tot. P:  89.0
Tot. Al:    13.0    Ext. Al:    5.0    Fe:   420.0       Mn:   140.0     SiO2: 13.20
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A1-002   Name: CALDERWOOD LAKE                     State: TN  Date: 20NOV84
Sample Type: REGULAR             Latitude: 35-29'45"N    Longitude: 83-58'00"W
Elevation:  331   Surface Temp: 15.1  Stratified: WEAK        Site Depth:  45.1
Lake Area:     231 Watershed Area: 482670 WA/LA:  2089.5 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  3.3   Turbidity:    1.4     Color:   20
Closed pH: 6.71       Equil. pH: 7.51              ANC:  148.2         DOC:  1.40
Closed DIC:  2.74   Equil. DIC:  1.97    Meas. Cond:  22.7   Cal. Cond:  25.3
Ca:   79.8          Mg:   46.1        Na:    61.8        K:  17.9       NH4:  1.4
SO4:    34.1      HCO3:  182.7       Cl:    26.2       NO3:    8.5          F:  1.3
Sum Cations:  207.1  Sum Anions:  253.0  Cations/Anions: 0.82   Tot. P:    4.0
Tot. Al:    38.0    Ext. Al:    2.0    Fe:     0.0     Mn:  113.0    SiO2:  7.54

ID: 3A1-004   Name: LAKE CHEOAH                         State: NC  Date: 20NOV84
Sample Type: REGULAR             Latitude: 35-27'00"N    Longitude: 83-55'45"W
Elevation:  389   Surface Temp: 15.0  Stratified: MIXED      Site Depth:  51.2
Lake Area:     234 Watershed Area: 416521 WA/LA:  1777.7 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  2.3   Turbidity:    2.2     Color:   30
Closed pH: 6.68       Equil. pH: 7.50              ANC:  153.6         DOC:  1.00
Closed DIC:  2.74   Equil. DIC:  2.01    Meas. Cond:  23.0   Cal. Cond:  24.1
Ca:   80.3          Mg:   46.1        Na:    62.2        K:  27.4       NH4:  4.6
SO4:    33.9      HCO3:  136.3       Cl:    26.5       NO3:    6.9          F:  1.3
Sum Cations:  220.7  Sum Anions:  205.1  Cations/Anions: 1.08   Tot. P:    5.0
Tot. Al:    62.0    Ext. Al:    2.0    Fe:    29.0     Mn:  134.0    SiO2:  7.52

ID: 3A1-005   Name: INDIAN BOUNDARY LAKE                State: TN  Date: 20NOV84
Sample Type: REGULAR             Latitude: 35-23'52"N    Longitude: 84-06'50"W
Elevation:  543   Surface Temp: 10.0  Stratified: MIXED      Site Depth:   4.6
Lake Area:      37 Watershed Area:   1116 WA/LA:    30.5 Hydro Type: RESERVOIR
Residence Time:  0.11  Secchi Depth:  1.8   Turbidity:    3.1     Color:   20
Closed pH: 7.26       Equil. pH: 7.76              ANC:  297.2         DOC:  2.60
Closed DIC:  3.77   Equil. DIC:  3.55    Meas. Cond:  35.3   Cal. Cond:  35.9
Ca:  190.1          Mg:   69.9        Na:    42.2        K:   3.8       NH4:  6.2
SO4:    25.0      HCO3:  315.4       Cl:    15.5       NO3:    9.8          F:  1.6
Sum Cations:  312.3  Sum Anions:  368.2  Cations/Anions: 0.85   Tot. P:    8.0
Tot. Al:    56.0    Ext. Al:    1.0    Fe:    43.0     Mn:   14.0    SiO2:  0.89

ID: 3A1-006   Name: ENKA LAKE                           State: NC  Date: 21NOV84
Sample Type: REGULAR             Latitude: 35-32'00"N    Longitude: 82-39'20"W
Elevation:  639   Surface Temp:  6.8  Stratified: MIXED      Site Depth:   7.3
Lake Area:      27 Watershed Area:   1528 WA/LA:    56.4 Hydro Type: RESERVOIR
Residence Time:  0.09  Secchi Depth:  3.0   Turbidity:    2.7     Color:   40
Closed pH: 7.20       Equil. pH: 7.69              ANC:  270.4         DOC:  1.30
Closed DIC:  3.67   Equil. DIC:  3.37    Meas. Cond:  38.3   Cal. Cond:  38.7
Ca:  125.2          Mg:   85.5        Na:    92.7        K:  38.6       NH4:  9.5
SO4:    41.4      HCO3:  248.1       Cl:    48.8       NO3:    4.3          F:  2.1
Sum Cations:  351.7  Sum Anions:  345.2  Cations/Anions: 1.02   Tot. P:    7.0
Tot. Al:    54.0    Ext. Al:    1.0    Fe:   180.0     Mn:   20.0    SiO2: 11.27

ID: 3A1-008   Name: THE LAGOON                          State: NC  Date: 21NOV84
Sample Type: REGULAR             Latitude: 35-32'28"N    Longitude: 82-33'45"W
Elevation:  604   Surface Temp:  7.3  Stratified: MIXED      Site Depth:   1.5
Lake Area:       4 Watershed Area:    166 WA/LA:    39.5 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:    *   Turbidity:    1.1     Color:   30
Closed pH: 7.30       Equil. pH: 7.81              ANC:  341.5         DOC:  2.50
Closed DIC:  4.53   Equil. DIC:  3.86    Meas. Cond:  45.1   Cal. Cond:  47.2
Ca:  145.7          Mg:  137.4        Na:    99.2        K:  46.8       NH4:  1.0
SO4:    33.3      HCO3:  347.2       Cl:    57.5       NO3:    0.6          F:  2.4
Sum Cations:  430.1  Sum Anions:  441.8  Cations/Anions: 0.97   Tot. P:   13.0
Tot. Al:    27.0    Ext. Al:    1.0    Fe:   170.0     Mn:   50.0    SiO2:  4.93
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A1-010   Name: LAKE LOGAN                          State: NC  Date: 29NOV84
Sample Type: REG/SPC/LTM/       Latitude: 35-25'00"N    Longitude: 82-55'40"W
Elevation:  887   Surface Temp:  6.6  Stratified: MIXED      Site Depth:  12.2
Lake Area:      35 Watershed Area:   8348 WA/LA:   237.2 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  1.4   Turbidity:   2.8     Color:   40
Closed pH: 6.38      Equil. pH: 6.83             ANC:   39.7          DOC:  2.90
Closed DIC:  0.89   Equil. DIC:  0.49    Meas. Cond:  13.4   Cal. Cond:  14.0
Ca:   42.4          Mg:   26.3       Na:   30.4        K:  15.1        NH4:  0.9
SO4:   42.3       HCO3:   36.3       Cl:   18.3      NO3:  11.5          F:  0.6
Sum Cations:  115.6  Sum Anions:  109.1  Cations/Anions: 1.06   Tot. P:   6.0
Tot. Al:  280.0    Ext. Al:  37.0     Fe:   50.0      Mn:   10.0    SiO2:  5.04

ID: 3A1-012   Name: LAKE TOXAWAY                        State: NC  Date: 29NOV84
Sample Type: REGULAR            Latitude: 35-08'00"N    Longitude: 82-56'30"W
Elevation:  914   Surface Temp:  8.6  Stratified: MIXED      Site Depth:  13.7
Lake Area:     200 Watershed Area:   2023 WA/LA:    10.1 Hydro Type: RESERVOIR
Residence Time:  0.61  Secchi Depth:  1.6   Turbidity:   4.7     Color:   60
Closed pH: 6.60      Equil. pH: 7.17             ANC:   65.3          DOC:  1.30
Closed DIC:  1.24   Equil. DIC:  1.17    Meas. Cond:  11.2   Cal. Cond:  11.8
Ca:   39.9          Mg:   20.6       Na:   30.9        K:   9.5        NH4:  2.3
SO4:   21.7       HCO3:   60.1       Cl:   17.2      NO3:   1.0          F:  0.6
Sum Cations:  103.3  Sum Anions:  100.6  Cations/Anions: 1.03   Tot. P:   7.0
Tot. Al:   36.0    Ext. Al:   2.0     Fe:   60.0      Mn:  120.0    SiO2:  4.28

ID: 3A1-014   Name: CASHIERS LAKE                       State: NC  Date: 25NOV84
Sample Type: REGULAR            Latitude: 35-06'25"N    Longitude: 83-06'03"W
Elevation: 1055   Surface Temp:  4.6  Stratified: MIXED      Site Depth:   1.8
Lake Area:      11 Watershed Area:    290 WA/LA:    26.4 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  1.6   Turbidity:   5.1     Color:   60
Closed pH: 6.73      Equil. pH: 7.39             ANC:  130.2          DOC:  3.40
Closed DIC:  1.84   Equil. DIC:  1.46    Meas. Cond:  33.7   Cal. Cond:  34.8
Ca:   88.8          Mg:   38.7       Na:  135.7        K:  33.5        NH4:  0.3
SO4:   42.5       HCO3:  127.7       Cl:  115.7      NO3:   3.2          F:  0.5
Sum Cations:  297.1  Sum Anions:  289.6  Cations/Anions: 1.03   Tot. P:  10.0
Tot. Al:  383.0    Ext. Al:   3.0     Fe:  170.0      Mn:   80.0    SiO2:  4.64

ID: 3A1-015   Name: HAMPTON LAKE                        State: NC  Date: 25NOV84
Sample Type: REGULAR            Latitude: 35-06'05"N    Longitude: 83-04'45"W
Elevation: 1042   Surface Temp:  5.9  Stratified: MIXED      Site Depth:   4.9
Lake Area:       7 Watershed Area:    199 WA/LA:    29.7 Hydro Type: RESERVOIR
Residence Time:  0.07  Secchi Depth:  2.6   Turbidity:   2.0     Color:   35
Closed pH: 6.47      Equil. pH: 7.19             ANC:   77.3          DOC:  1.70
Closed DIC:  1.47   Equil. DIC:  0.93    Meas. Cond:  14.1   Cal. Cond:  17.7
Ca:   45.9          Mg:   20.6       Na:   53.9        K:  12.3        NH4:  0.4
SO4:   33.7       HCO3:   69.5       Cl:   54.4      NO3:   2.3          F:  0.5
Sum Cations:  133.3  Sum Anions:  160.5  Cations/Anions: 0.83   Tot. P:   6.0
Tot. Al:  135.0    Ext. Al:   2.0     Fe:  110.0      Mn:   60.0    SiO2:  5.89

ID: 3A1-018   Name: LUPTIN LAKE                         State: NC  Date: 25NOV84
Sample Type: REGULAR            Latitude: 35-06'45"N    Longitude: 83-01'15"W
Elevation:  945   Surface Temp:  4.2  Stratified: MIXED      Site Depth:   4.9
Lake Area:      19 Watershed Area:   3875 WA/LA:   209.5 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  1.4   Turbidity:   4.4     Color:   40
Closed pH: 6.25      Equil. pH: 7.28             ANC:   90.5          DOC:  0.90
Closed DIC:  2.48   Equil. DIC:  1.26    Meas. Cond:  15.7   Cal. Cond:  18.1
Ca:   47.9          Mg:   22.2       Na:   57.4        K:  11.0        NH4:  6.4
SO4:   25.2       HCO3:  116.0       Cl:   29.3      NO3:   5.5          F:  0.4
Sum Cations:  145.1  Sum Anions:  176.5  Cations/Anions: 0.82   Tot. P:  13.0
Tot. Al:  181.0    Ext. Al:   2.0     Fe:   30.0      Mn:  110.0    SiO2:  6.78
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A1-019   Name: (NO NAME)                          State: NC  Date: 29NOV84
Sample Type: REGULAR            Latitude: 35-06'21"N    Longitude: 83-00'15"W
Elevation:  963   Surface Temp:  6.0  Stratified: MIXED     Site Depth:   3.0
Lake Area:      12 Watershed Area:     192 WA/LA:    16.3 Hydro Type: RESERVOIR
Residence Time:  0.08  Secchi Depth:  1.4   Turbidity:   3.6      Color:   45
Closed pH: 5.90       Equil. pH: 6.42               ANC:   20.2          DOC:  3.20
Closed DIC:  0.80   Equil. DIC:  0.27    Meas. Cond:   7.8   Cal. Cond:   8.0
Ca:    16.5          Mg:    18.9        Na:    23.9        K:   8.7        NH4:  0.3
SO4:    25.0       HCO3:    11.9        Cl:    16.1      NO3:   0.5          F:  0.4
Sum Cations:    69.3  Sum Anions:    53.8  Cations/Anions: 1.29   Tot. P:   8.0
Tot. Al:  345.0    Ext. Al:  21.0     Fe:   130.0      Mn:    10.0    SiO2:  3.70

ID: 3A2-001   Name: FAIRY STONE LAKE                   State: VA  Date: 21NOV84
Sample Type: REGULAR            Latitude: 36-48'04"N    Longitude: 80-06'37"W
Elevation:  301   Surface Temp:  9.3  Stratified: MIXED     Site Depth:   8.2
Lake Area:      52 Watershed Area:    4913 WA/LA:    94.3 Hydro Type: CLOSED
Residence Time:     *  Secchi Depth:  2.3   Turbidity:   2.8      Color:   25
Closed pH: 7.23       Equil. pH: 7.83               ANC:  371.7          DOC:  1.60
Closed DIC:  5.09   Equil. DIC:  4.38    Meas. Cond:  47.2   Cal. Cond:  47.6
Ca:   169.4          Mg:   143.5        Na:    81.1        K:  30.8        NH4:  3.9
SO4:    51.9       HCO3:   358.6        Cl:    37.9      NO3:   1.3          F:  2.1
Sum Cations:   428.8  Sum Anions:   452.9  Cations/Anions: 0.95   Tot. P:   5.0
Tot. Al:   73.0    Ext. Al:   1.5     Fe:   110.0      Mn:    20.0    SiO2: 14.52

ID: 3A2-002   Name: (NO NAME)                          State: NC  Date: 29NOV84
Sample Type: REGULAR            Latitude: 36-26'41"N    Longitude: 80-55'48"W
Elevation:  457   Surface Temp:  8.8  Stratified: MIXED     Site Depth:  18.8
Lake Area:      14 Watershed Area:     596 WA/LA:    43.2 Hydro Type: RESERVOIR
Residence Time:  0.39  Secchi Depth:  3.9   Turbidity:   2.0      Color:   25
Closed pH: 6.39       Equil. pH: 7.28               ANC:   81.9          DOC:  1.10
Closed DIC:  1.98   Equil. DIC:  1.05    Meas. Cond:  12.2   Cal. Cond:  12.3
Ca:    31.4          Mg:    33.7        Na:    40.9        K:   9.2        NH4:  0.3
SO4:    16.4       HCO3:    66.1        Cl:    20.3      NO3:   0.0          F:  0.6
Sum Cations:   115.8  Sum Anions:   103.5  Cations/Anions: 1.12   Tot. P:   5.0
Tot. Al:   12.0    Ext. Al:   2.0     Fe:    80.0      Mn:    50.0    SiO2:  6.33

ID: 3A2-003   Name: (NO NAME)                          State: NC  Date: 29NOV84
Sample Type: REGULAR            Latitude: 36-24'05"N    Longitude: 80-58'55"W
Elevation:  877   Surface Temp:  6.1  Stratified: MIXED     Site Depth:  11.5
Lake Area:      20 Watershed Area:     269 WA/LA:    13.6 Hydro Type: RESERVOIR
Residence Time:  0.72  Secchi Depth:  3.7   Turbidity:   2.6      Color:   40
Closed pH: 6.79       Equil. pH: 7.36               ANC:  104.8          DOC:  1.50
Closed DIC:  1.73   Equil. DIC:  1.44    Meas. Cond:  21.1   Cal. Cond:  21.5
Ca:    53.9          Mg:    43.6        Na:    70.0        K:  14.3        NH4:  9.0
SO4:    13.3       HCO3:    86.7        Cl:    72.5      NO3:   2.2          F:  0.8
Sum Cations:   191.0  Sum Anions:   175.6  Cations/Anions: 1.09   Tot. P:   3.0
Tot. Al:   26.0    Ext. Al:   2.0     Fe:   300.0      Mn:    30.0    SiO2:  3.84

ID: 3A2-004   Name: CHETOLA LAKE                       State: NC  Date: 21NOV84
Sample Type: REGULAR            Latitude: 36-08'16"N    Longitude: 81-40'20"W
Elevation: 1061   Surface Temp:  0.9  Stratified: MIXED     Site Depth:   2.1
Lake Area:       3 Watershed Area:     570 WA/LA:   167.6 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  1.5   Turbidity:   5.7      Color:   45
Closed pH: 6.94       Equil. pH: 7.66               ANC:  244.9          DOC:  2.30
Closed DIC:  3.74   Equil. DIC:  3.18    Meas. Cond:  56.2   Cal. Cond:  58.2
Ca:   231.0          Mg:    89.7        Na:   158.8        K:  28.6        NH4:  6.0
SO4:    47.7       HCO3:   206.8        Cl:   185.1      NO3:  26.7          F:  1.5
Sum Cations:   514.3  Sum Anions:   468.0  Cations/Anions: 1.10   Tot. P:  12.0
Tot. Al:   89.0    Ext. Al:   2.0     Fe:   210.0      Mn:    80.0    SiO2:  6.45
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A2-005   Name: LAKE IN THE SKY                    State: TN  Date: 20NOV84
Sample Type: REGULAR           Latitude: 35-39'15"N    Longitude: 83-54'28"W
Elevation:  613   Surface Temp:  9.8  Stratified: MIXED      Site Depth:   6.4
Lake Area:     21 Watershed Area:    461 WA/LA:    22.3 Hydro Type: RESERVOIR
Residence Time:  0.25  Secchi Depth:  1.3   Turbidity:   6.0     Color:   30
Closed pH: 6.98       Equil. pH: 7.53               ANC:  159.7        DOC:  3.00
Closed DIC:  2.35  Equil. DIC:  1.98   Meas. Cond:  24.7   Cal. Cond:  25.9
Ca:  110.8         Mg:   82.3       Na:   16.1          K:  18.4       NH4:  2.4
SO4:   51.4      HCO3:  159.0       Cl:   16.9        NO3:   0.8         F:  1.3
Sum Cations:  230.0  Sum Anions:  229.7  Cations/Anions: 1.00   Tot. P:   2.0
Tot. Al:  143.0    Ext. Al:    2.0    Fe:   81.0      Mn:   25.0    SiO2:  2.37

ID: 3A2-006   Name: WALTERS LAKE                       State: NC  Date: 29NOV84
Sample Type: REGULAR           Latitude: 35-41'35"N    Longitude: 83-02'45"W
Elevation:  688   Surface Temp:  8.9  Stratified: MIXED      Site Depth:  32.3
Lake Area:    129 Watershed Area: 117153 WA/LA:   911.7 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  0.3   Turbidity:  16.2     Color:  175
Closed pH: 7.15       Equil. pH: 8.08               ANC:  713.3        DOC: 14.90
Closed DIC:  8.86  Equil. DIC:  8.09   Meas. Cond: 475.2   Cal. Cond: 502.0
Ca: 1173.6         Mg:  162.9       Na: 2546.9          K: 111.7       NH4: 13.5
SO4:  638.1      HCO3:  644.0       Cl: 2671.5        NO3:  40.7         F:  3.0
Sum Cations: 4008.7  Sum Anions: 3999.2  Cations/Anions: 1.00   Tot. P: 286.0
Tot. Al: 1090.0    Ext. Al:   42.0    Fe:  290.0      Mn:  160.0    SiO2: 11.08

ID: 3A2-007   Name: FONTANA LAKE                       State: NC  Date: 20NOV84
Sample Type: REGULAR           Latitude: 35-27'00"N    Longitude: 83-47'30"W
Elevation:  521   Surface Temp: 16.6  Stratified: MIXED      Site Depth: 103.0
Lake Area:   4195 Watershed Area: 407006 WA/LA:    97.0 Hydro Type: RESERVOIR
Residence Time:  0.77  Secchi Depth:  3.8   Turbidity:   0.9     Color:   15
Closed pH: 6.67       Equil. pH: 7.47               ANC:  139.5        DOC:  0.90
Closed DIC:  2.34  Equil. DIC:  1.96   Meas. Cond:  21.4   Cal. Cond:  24.0
Ca:   73.4         Mg:   46.9       Na:   63.1          K:  27.6       NH4:  1.3
SO4:   33.1      HCO3:  149.0       Cl:   25.7        NO3:   7.1         F:  1.3
Sum Cations:  212.3  Sum Anions:  216.4  Cations/Anions: 0.98   Tot. P:   3.0
Tot. Al:   21.0    Ext. Al:    2.0    Fe:    0.0      Mn:   37.0    SiO2:  7.66

ID: 3A2-008   Name: (NO NAME)                          State: NC  Date: 29NOV84
Sample Type: REGULAR           Latitude: 35-16'38"N    Longitude: 83-39'16"W
Elevation:  908   Surface Temp:  7.7  Stratified: MIXED      Site Depth:  14.6
Lake Area:      8 Watershed Area:    904 WA/LA:   108.9 Hydro Type: RESERVOIR
Residence Time:  0.08  Secchi Depth:  3.3   Turbidity:   1.5     Color:   25
Closed pH: 7.21       Equil. pH: 7.71               ANC:  239.8        DOC:  1.40
Closed DIC:  3.12  Equil. DIC:  2.88   Meas. Cond:  28.0   Cal. Cond:  29.4
Ca:  152.7         Mg:   59.2       Na:   53.9          K:  15.3       NH4:  0.2
SO4:   22.9      HCO3:  224.4       Cl:   16.4        NO3:   2.2         F:  1.1
Sum Cations:  281.4  Sum Anions:  267.6  Cations/Anions: 1.05   Tot. P:   7.0
Tot. Al:   49.0    Ext. Al:    2.0    Fe:   60.0      Mn:    0.0    SiO2:  7.08

ID: 3A2-009   Name: NANTAHALA LAKE                     State: NC  Date: 29NOV84
Sample Type: REGULAR           Latitude: 35-11'00"N    Longitude: 83-40'00"W
Elevation:  918   Surface Temp: 12.1  Stratified: WEAK       Site Depth:  45.7
Lake Area:    632 Watershed Area:  23401 WA/LA:    37.0 Hydro Type: RESERVOIR
Residence Time:  0.73  Secchi Depth:  4.4   Turbidity:   1.0     Color:   15
Closed pH: 6.79       Equil. pH: 7.29               ANC:   93.7        DOC:  0.80
Closed DIC:  1.57  Equil. DIC:  1.18   Meas. Cond:  13.2   Cal. Cond:  13.6
Ca:   49.9         Mg:   30.4       Na:   36.1          K:  10.0       NH4:  0.7
SO4:   18.3      HCO3:   82.0       Cl:   15.8        NO3:   1.0         F:  0.6
Sum Cations:  127.2  Sum Anions:  117.7  Cations/Anions: 1.08   Tot. P:   2.0
Tot. Al:   68.0    Ext. Al:    2.0    Fe:   20.0      Mn:   30.0    SiO2:  6.76
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A2-011   Name: APALACHIA LAKE                     State: NC  Date: 20NOV84
Sample Type: REGULAR             Latitude: 35-10'13"N    Longitude: 84-15'30"W
Elevation:  390   Surface Temp: 15.3  Stratified: MIXED       Site Depth:  32.0
Lake Area:     412 Watershed Area: 247464 WA/LA:    600.8 Hydro Type: RESERVOIR
Residence Time:  0.04  Secchi Depth:  3.2   Turbidity:   1.7       Color:   20
Closed pH: 6.78         Equil. pH: 7.50               ANC:  155.8        DOC:  0.90
Closed DIC:  2.69   Equil. DIC:  1.97    Meas. Cond:  24.3   Cal. Cond:  25.7
Ca:   78.8            Mg:   55.9        Na:   57.4          K:  33.0      NH4:   3.4
SO4:   34.6       HCO3:  149.2        Cl:   30.7        NO3:   9.2          F:   1.3
Sum Cations:  228.7  Sum Anions:  225.3  Cations/Anions: 1.02   Tot. P:   4.0
Tot. Al:   39.0    Ext. Al:   2.0     Fe:    0.0      Mn:   73.0    SiO2:  6.97

ID: 3A2-012   Name: LAKE OCOEE                         State: TN  Date: 20NOV84
Sample Type: REGULAR             Latitude: 35-05'42"N    Longitude: 84-36'59"W
Elevation:  255   Surface Temp: 13.4  Stratified: WEAK        Site Depth:  29.9
Lake Area:     751 Watershed Area: 150456 WA/LA:    200.3 Hydro Type: RESERVOIR
Residence Time:  0.11  Secchi Depth:  1.8   Turbidity:   5.6       Color:   20
Closed pH: 6.94         Equil. pH: 7.43               ANC:  140.6        DOC:  0.80
Closed DIC:  2.06   Equil. DIC:  1.60    Meas. Cond: 129.4   Cal. Cond: 138.9
Ca:  767.5            Mg:  116.0        Na:  133.1          K:  37.6      NH4:   7.5
SO4:  828.6       HCO3:  144.5        Cl:   50.8        NO3:   5.5          F:   2.4
Sum Cations: 1061.7  Sum Anions: 1032.1  Cations/Anions: 1.03   Tot. P:   3.0
Tot. Al:  135.0    Ext. Al:   2.0     Fe:    0.0      Mn:   74.0    SiO2:  8.54

ID: 3A2-014   Name: CONASAUGA LAKE                     State: GA  Date: 24NOV84
Sample Type: REGULAR             Latitude: 34-51'35"N    Longitude: 84-39'04"W
Elevation:  957   Surface Temp:  5.7  Stratified: MIXED       Site Depth:   6.1
Lake Area:       5 Watershed Area:     96 WA/LA:     20.0 Hydro Type: RESERVOIR
Residence Time:  0.21  Secchi Depth:  2.3   Turbidity:   2.0       Color:   35
Closed pH: 6.75         Equil. pH: 7.27               ANC:   90.3        DOC:  1.80
Closed DIC:  1.44   Equil. DIC:  1.15    Meas. Cond:  15.8   Cal. Cond:  15.4
Ca:   68.9            Mg:   31.3        Na:   26.5          K:  12.5      NH4:   0.3
SO4:   33.3       HCO3:   69.8        Cl:   19.7        NO3:   0.0          F:   0.6
Sum Cations:  139.6  Sum Anions:  123.5  Cations/Anions: 1.13   Tot. P:   9.0
Tot. Al:   60.0    Ext. Al:   3.0     Fe:  140.0      Mn:   20.0    SiO2:  3.05

ID: 3A2-015   Name: (NO NAME)                          State: GA  Date: 24NOV84
Sample Type: REGULAR             Latitude: 34-47'13"N    Longitude: 84-23'58"W
Elevation:  457   Surface Temp:  5.5  Stratified: MIXED       Site Depth:   2.7
Lake Area:      11 Watershed Area:   3699 WA/LA:    330.3 Hydro Type: RESERVOIR
Residence Time:  0.00  Secchi Depth:  1.5   Turbidity:   5.4       Color:   40
Closed pH: 7.11         Equil. pH: 7.67               ANC:  221.5        DOC:  0.90
Closed DIC:  2.93   Equil. DIC:  2.63    Meas. Cond:  30.9   Cal. Cond:  33.3
Ca:  136.7            Mg:   69.9        Na:   60.5          K:  19.2      NH4:   1.8
SO4:   44.6       HCO3:  206.6        Cl:   48.5        NO3:   3.9          F:   1.2
Sum Cations:  288.2  Sum Anions:  305.1  Cations/Anions: 0.94   Tot. P:   9.0
Tot. Al:   60.0    Ext. Al:   3.0     Fe:   70.0      Mn:   14.0    SiO2:  8.55

ID: 3A2-016   Name: NOTTELY LAKE                       State: GA  Date: 20NOV84
Sample Type: REGULAR             Latitude: 34-55'56"N    Longitude: 84-04'32"W
Elevation:  542   Surface Temp: 14.8  Stratified: MIXED       Site Depth:  38.1
Lake Area:    1649 Watershed Area:  39966 WA/LA:     24.2 Hydro Type: RESERVOIR
Residence Time:  1.08  Secchi Depth:  1.7   Turbidity:   3.4       Color:   30
Closed pH: 6.82         Equil. pH: 7.50               ANC:  153.2        DOC:  1.30
Closed DIC:  2.39   Equil. DIC:  2.09    Meas. Cond:  24.2   Cal. Cond:  25.7
Ca:   69.4            Mg:   47.7        Na:   72.6          K:  32.2      NH4:   6.8
SO4:   31.6       HCO3:  143.9        Cl:   42.3        NO3:   3.0          F:   1.5
Sum Cations:  228.8  Sum Anions:  222.5  Cations/Anions: 1.03   Tot. P:   2.0
Tot. Al:  137.0    Ext. Al:   3.0     Fe:   26.0      Mn:    5.0    SiO2:  7.82
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A2-017   Name: LAKE BURTON                         State: GA  Date: 24NOV84
Sample Type: REGULAR             Latitude: 34-49'38"N   Longitude: 83-33'18"W
Elevation:  567   Surface Temp: 12.6  Stratified: MIXED      Site Depth:  31.7
Lake Area:    1036 Watershed Area:  27343 WA/LA:    26.4 Hydro Type: RESERVOIR
Residence Time:  0.70  Secchi Depth:  3.0   Turbidity:   1.4     Color:   15
Closed pH: 6.73       Equil. pH: 7.44              ANC:  130.2        DOC:  0.60
Closed DIC:  2.27   Equil. DIC:  1.61    Meas. Cond:  16.5   Cal. Cond:  16.8
Ca:    54.9         Mg:    38.7        Na:    47.4          K:  13.0       NH4:   2.1
SO4:    15.6      HCO3:  117.8       Cl:    18.3        NO3:    0.2          F:   0.6
Sum Cations:  156.2  Sum Anions:  152.7  Cations/Anions: 1.02   Tot. P:    4.0
Tot. Al:   17.0    Ext. Al:    2.0     Fe:     0.0       Mn:     0.0    SiO2:  8.74

ID: 3A2-018   Name: LAKE RABUN                          State: GA  Date: 24NOV84
Sample Type: REGULAR             Latitude: 34-46'13"N   Longitude: 83-25'44"W
Elevation:  513   Surface Temp: 12.0  Stratified: WEAK       Site Depth:  27.4
Lake Area:     261 Watershed Area:  36483 WA/LA:   139.9 Hydro Type: RESERVOIR
Residence Time:  0.14  Secchi Depth:  2.0   Turbidity:   1.7     Color:   20
Closed pH: 6.55       Equil. pH: 7.43              ANC:  131.2        DOC:  1.10
Closed DIC:  2.68   Equil. DIC:  1.63    Meas. Cond:  16.3   Cal. Cond:  16.6
Ca:    51.4         Mg:    37.0        Na:    45.2          K:  13.6       NH4:   4.0
SO4:    15.0      HCO3:  117.1       Cl:    18.9        NO3:    0.7          F:   0.6
Sum Cations:  151.3  Sum Anions:  152.4  Cations/Anions: 0.99   Tot. P:    2.0
Tot. Al:   16.0    Ext. Al:    2.0     Fe:    20.0       Mn:   170.0    SiO2:  8.17

ID: 3A2-019   Name: CARTERS LAKE                        State: GA  Date: 24NOV84
Sample Type: REGULAR             Latitude: 34-36'26"N   Longitude: 84-38'04"W
Elevation:  327   Surface Temp: 14.8  Stratified: WEAK       Site Depth: 119.0
Lake Area:    1161 Watershed Area:  95978 WA/LA:    82.7 Hydro Type: RESERVOIR
Residence Time:  1.29  Secchi Depth:  2.9   Turbidity:   1.8     Color:   15
Closed pH: 6.83       Equil. pH: 7.58              ANC:  185.8        DOC:  0.80
Closed DIC:  2.75   Equil. DIC:  2.41    Meas. Cond:  29.3   Cal. Cond:  30.0
Ca:   114.3         Mg:    64.2        Na:    60.5          K:  27.4       NH4:   1.1
SO4:    48.1      HCO3:  171.6       Cl:    30.7        NO3:   10.8          F:   1.4
Sum Cations:  267.5  Sum Anions:  262.9  Cations/Anions: 1.02   Tot. P:   10.0
Tot. Al:   60.0    Ext. Al:    3.0     Fe:     0.0       Mn:     7.0    SiO2:  7.98

ID: 3A2-020   Name: TWIN LAKES (WESTERN)                State: GA  Date: 26NOV84
Sample Type: REGULAR             Latitude: 34-37'18"N   Longitude: 83-49'29"W
Elevation:  457   Surface Temp:  9.6  Stratified: MIXED      Site Depth:   7.3
Lake Area:       6 Watershed Area:    168 WA/LA:    27.1 Hydro Type: RESERVOIR
Residence Time:  0.19  Secchi Depth:  4.4   Turbidity:   1.9     Color:   25
Closed pH: 6.94       Equil. pH: 7.42              ANC:  134.4        DOC:  1.30
Closed DIC:  1.88   Equil. DIC:  1.62    Meas. Cond:  19.2   Cal. Cond:  19.6
Ca:    66.4         Mg:    44.4        Na:    53.5          K:  19.7       NH4:   0.7
SO4:    21.0      HCO3:  113.0       Cl:    28.2        NO3:    2.0          F:   1.1
Sum Cations:  184.8  Sum Anions:  165.3  Cations/Anions: 1.12   Tot. P:    4.0
Tot. Al:   51.0    Ext. Al:    2.0     Fe:    50.0       Mn:    40.0    SiO2:  7.57

ID: 3A2-021   Name: TWIN LAKES (EASTERN)                State: GA  Date: 26NOV84
Sample Type: REGULAR             Latitude: 34-37'21"N   Longitude: 83-49'13"W
Elevation:  448   Surface Temp:  7.4  Stratified: MIXED      Site Depth:   4.0
Lake Area:      12 Watershed Area:    811 WA/LA:    66.5 Hydro Type: RESERVOIR
Residence Time:  0.04  Secchi Depth:  2.9   Turbidity:   3.1     Color:   35
Closed pH: 6.95       Equil. pH: 7.61              ANC:  198.6        DOC:  1.20
Closed DIC:  2.82   Equil. DIC:  2.37    Meas. Cond:  27.1   Cal. Cond:  27.0
Ca:    99.3         Mg:    59.2        Na:    66.6          K:  24.0       NH4:   0.4
SO4:    26.6      HCO3:  180.5       Cl:    32.7        NO3:    0.6          F:   1.2
Sum Cations:  249.6  Sum Anions:  241.9  Cations/Anions: 1.03   Tot. P:    5.0
Tot. Al:   45.0    Ext. Al:    3.0     Fe:    90.0       Mn:    40.0    SiO2:  9.07
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A2-022   Name: LAKE TAMARACK                      State: GA  Date: 24NOV84
Sample Type: REGULAR            Latitude: 34-29'23"N    Longitude: 84-22'18"W
Elevation:  454   Surface Temp: 10.8  Stratified: MIXED      Site Depth:  15.2
Lake Area:      37 Watershed Area:    2085 WA/LA:     56.7 Hydro Type: RESERVOIR
Residence Time:  0.19  Secchi Depth:  3.1   Turbidity:   2.0      Color:   25
Closed pH: 6.79        Equil. pH: 7.60              ANC:  179.7          DOC:  0.90
Closed DIC:  2.90   Equil. DIC:  2.02    Meas. Cond:  25.0   Cal. Cond:  25.7
Ca:   91.8          Mg:    51.0        Na:    63.1          K:  22.5        NH4:  0.9
SO4:    29.4       HCO3:  178.5       Cl:    29.9        NO3:    0.0          F:  0.9
Sum Cations:  229.4  Sum Anions:  238.9  Cations/Anions: 0.96   Tot. P:   2.0
Tot. Al:    26.0    Ext. Al:    2.0    Fe:    30.0      Mn:  108.0     SiO2:  0.16

ID: 3A2-023   Name: SEQUOYAH LAKE                      State: GA  Date: 24NOV84
Sample Type: REGULAR            Latitude: 34-32'41"N    Longitude: 84-22'04"W
Elevation:  844   Surface Temp:  7.8  Stratified: MIXED      Site Depth:  10.1
Lake Area:      17 Watershed Area:     339 WA/LA:     19.5 Hydro Type: RESERVOIR
Residence Time:  0.35  Secchi Depth:  3.4   Turbidity:   1.6      Color:   15
Closed pH: 6.98        Equil. pH: 7.36              ANC:  108.4          DOC:  1.00
Closed DIC:  1.49   Equil. DIC:  1.20    Meas. Cond:  20.4   Cal. Cond:  21.2
Ca:   67.4          Mg:    39.5        Na:    59.2          K:  16.1        NH4:  0.3
SO4:    18.5       HCO3:  101.2       Cl:    63.5        NO3:    0.5          F:  0.6
Sum Cations:  182.5  Sum Anions:  184.5  Cations/Anions: 0.99   Tot. P:   6.0
Tot. Al:    26.0    Ext. Al:    4.0    Fe:    10.0      Mn:    0.0     SiO2:  4.61

ID: 3A2-026   Name: SCONTI LAKE                        State: GA  Date: 24NOV84
Sample Type: REGULAR            Latitude: 34-27'08"N    Longitude: 84-17'17"W
Elevation:  446   Surface Temp: 10.0  Stratified: MIXED      Site Depth:   7.6
Lake Area:      10 Watershed Area:    1347 WA/LA:    129.5 Hydro Type: DRAINAGE
Residence Time:  0.04  Secchi Depth:  0.9   Turbidity:  13.0      Color:   80
Closed pH: 6.48        Equil. pH: 7.44              ANC:  133.4          DOC:  1.00
Closed DIC:  2.64   Equil. DIC:  1.75    Meas. Cond:  19.1   Cal. Cond:  19.5
Ca:   54.9          Mg:    40.3        Na:    50.5          K:  23.0        NH4:  0.8
SO4:    23.3       HCO3:  123.4       Cl:    31.0        NO3:    0.2          F:  0.7
Sum Cations:  169.6  Sum Anions:  178.7  Cations/Anions: 0.95   Tot. P:   5.0
Tot. Al:    19.0    Ext. Al:    2.0    Fe:    30.0      Mn:  188.0     SiO2:  8.16

ID: 3A2-027   Name: COX LAKE                           State: GA  Date: 24NOV84
Sample Type: REGULAR            Latitude: 34-25'34"N    Longitude: 84-17'53"W
Elevation:  389   Surface Temp:  7.2  Stratified: MIXED      Site Depth:   3.0
Lake Area:      10 Watershed Area:    2541 WA/LA:    262.0 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  0.6   Turbidity:  18.9      Color:   85
Closed pH: 6.89        Equil. pH: 7.46              ANC:  143.8          DOC:  1.10
Closed DIC:  1.88   Equil. DIC:  1.49    Meas. Cond:  20.7   Cal. Cond:  21.0
Ca:   57.4          Mg:    41.1        Na:    59.2          K:  27.1        NH4:  0.2
SO4:    22.9       HCO3:  121.0       Cl:    34.7        NO3:    6.7          F:  0.7
Sum Cations:  185.0  Sum Anions:  186.2  Cations/Anions: 0.99   Tot. P:  22.0
Tot. Al:   382.0    Ext. Al:    2.0    Fe:    20.0      Mn:   26.0     SiO2:  7.73

ID: 3A2-028   Name: (NO NAME)                          State: GA  Date: 24NOV84
Sample Type: REGULAR            Latitude: 34-30'43"N    Longitude: 84-04'37"W
Elevation:  396   Surface Temp:  7.0  Stratified: MIXED      Site Depth:   4.6
Lake Area:      10 Watershed Area:    2776 WA/LA:    286.2 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  1.9   Turbidity:   5.2      Color:   40
Closed pH: 6.48        Equil. pH: 7.26              ANC:   80.7          DOC:  0.80
Closed DIC:  1.64   Equil. DIC:  1.03    Meas. Cond:  12.3   Cal. Cond:  12.8
Ca:   26.9          Mg:    29.6        Na:    44.8          K:  17.1        NH4:  1.9
SO4:    11.5       HCO3:   64.6       Cl:    25.1        NO3:    2.8          F:  0.6
Sum Cations:  120.7  Sum Anions:  104.6  Cations/Anions: 1.15   Tot. P:   4.0
Tot. Al:    93.0    Ext. Al:    2.0    Fe:    20.0      Mn:   12.0     SiO2:  8.18
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A2-029   Name: (NO NAME)                        State: NC  Date: 25NOV84
Sample Type: REGULAR          Latitude: 35-24'30"N    Longitude: 82-12'09"W
Elevation:  323   Surface Temp:  6.0  Stratified: MIXED     Site Depth:   3.0
Lake Area:        4 Watershed Area:    637 WA/LA:   167.6 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.2   Turbidity:  12.8      Color:   50
Closed pH: 7.08        Equil. pH: 7.79            ANC:  290.9         DOC:  1.00
Closed DIC:  3.79  Equil. DIC:  3.44    Meas. Cond:  35.6   Cal. Cond:  37.4
Ca:    93.3          Mg:    71.6       Na:  124.0         K:  33.0       NH4:   0.2
SO4:   28.7       HCO3:  314.9       Cl:   37.5        NO3:   0.0          F:   2.6
Sum Cations:  322.1  Sum Anions:  384.8  Cations/Anions: 0.84   Tot. P:   6.0
Tot. Al:  229.0    Ext. Al:    4.0    Fe:    70.0     Mn:    0.0    SiO2: 18.43

ID: 3A2-030   Name: LAKE ADGER                       State: NC  Date: 25NOV84
Sample Type: REGULAR          Latitude: 35-20'17"N    Longitude: 82-12'15"W
Elevation:  277   Surface Temp:  9.2  Stratified: MIXED     Site Depth:  23.1
Lake Area:      148 Watershed Area:  34729 WA/LA:   234.2 Hydro Type: RESERVOIR
Residence Time:  0.09  Secchi Depth:  2.3   Turbidity:   2.0      Color:   20
Closed pH: 6.93        Equil. pH: 7.70            ANC:  227.1         DOC:  0.60
Closed DIC:  3.46  Equil. DIC:  2.72    Meas. Cond:  30.9   Cal. Cond:  32.4
Ca:    96.3          Mg:    68.3       Na:   92.7         K:  23.3       NH4:   2.7
SO4:   28.7       HCO3:  238.5       Cl:   40.3        NO3:   6.1          F:   1.3
Sum Cations:  283.3  Sum Anions:  315.4  Cations/Anions: 0.90   Tot. P:   3.0
Tot. Al:  112.0    Ext. Al:    3.0    Fe:    30.0     Mn:    0.0    SiO2: 13.22

ID: 3A2-031   Name: CEDAR CLIFF LAKE                 State: NC  Date: 25NOV84
Sample Type: REGULAR          Latitude: 35-15'15"N    Longitude: 83-05'45"W
Elevation:  683   Surface Temp: 12.7  Stratified: MIXED     Site Depth:  43.6
Lake Area:       76 Watershed Area:  20518 WA/LA:   269.3 Hydro Type: RESERVOIR
Residence Time:  0.10  Secchi Depth:  3.8   Turbidity:   1.3      Color:   30
Closed pH: 6.50        Equil. pH: 7.29            ANC:   83.8         DOC:  1.30
Closed DIC:  1.74  Equil. DIC:  1.26    Meas. Cond:  13.3   Cal. Cond:  15.0
Ca:    39.9          Mg:    24.7       Na:   43.9         K:  13.6       NH4:   2.4
SO4:   22.9       HCO3:  103.4       Cl:   16.9        NO3:   2.2          F:   0.7
Sum Cations:  124.6  Sum Anions:  146.2  Cations/Anions: 0.85   Tot. P:  10.0
Tot. Al:   55.0    Ext. Al:    2.0    Fe:    50.0     Mn:   10.0    SiO2:  7.53

ID: 3A2-032   Name: BEAR CREEK RESERVOIR             State: NC  Date: 25NOV84
Sample Type: REGULAR          Latitude: 35-14'25"N    Longitude: 83-03'42"W
Elevation:  732   Surface Temp: 12.7  Stratified: MIXED     Site Depth:  56.7
Lake Area:      212 Watershed Area:  18910 WA/LA:    89.1 Hydro Type: RESERVOIR
Residence Time:  0.29  Secchi Depth:  3.3   Turbidity:   0.8      Color:   20
Closed pH: 6.47        Equil. pH: 7.20            ANC:   77.9         DOC:  1.10
Closed DIC:  1.50  Equil. DIC:  1.11    Meas. Cond:  12.2   Cal. Cond:  12.9
Ca:    35.4          Mg:    23.0       Na:   43.5         K:  12.3       NH4:   2.2
SO4:   20.6       HCO3:   72.3       Cl:   16.4        NO3:   1.3          F:   0.6
Sum Cations:  116.6  Sum Anions:  111.2  Cations/Anions: 1.05   Tot. P:   4.0
Tot. Al:   58.0    Ext. Al:    4.0    Fe:    40.0     Mn:   60.0    SiO2:  6.96

ID: 3A2-033   Name: TAMASEE CREEK RESERVOIR          State: NC  Date: 25NOV84
Sample Type: REGULAR          Latitude: 35-12'47"N    Longitude: 83-00'00"W
Elevation:  914   Surface Temp:  5.9  Stratified: MIXED     Site Depth:  26.8
Lake Area:       22 Watershed Area:   6270 WA/LA:   291.6 Hydro Type: RESERVOIR
Residence Time:  0.04  Secchi Depth:  3.1   Turbidity:   1.1      Color:   30
Closed pH: 6.29        Equil. pH: 6.98            ANC:   48.0         DOC:  1.90
Closed DIC:  1.11  Equil. DIC:  0.59    Meas. Cond:  10.5   Cal. Cond:  11.1
Ca:    28.9          Mg:    21.4       Na:   36.5         K:  10.7       NH4:   1.2
SO4:   28.9       HCO3:   39.6       Cl:   16.6        NO3:   1.5          F:   0.5
Sum Cations:   99.1  Sum Anions:   87.1  Cations/Anions: 1.14   Tot. P:   6.0
Tot. Al:  136.0    Ext. Al:    8.0    Fe:    40.0     Mn:  160.0    SiO2:  6.80
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A2-035   Name: KANUGA LAKE                               State: NC  Date: 29NOV84
Sample Type: REGULAR               Latitude: 35-15'45"N    Longitude: 82-31'05"W
Elevation:  701   Surface Temp:  7.5  Stratified: MIXED       Site Depth:    4.6
Lake Area:      10 Watershed Area:     407 WA/LA:    42.8 Hydro Type: RESERVOIR
Residence Time:  0.06  Secchi Depth:  2.4   Turbidity:    3.1      Color:    20
Closed pH: 6.92        Equil. pH: 7.45               ANC:  128.0         DOC:  1.70
Closed DIC:  1.80   Equil. DIC:  1.65    Meas. Cond:  16.4   Cal. Cond:  16.7
Ca:   45.9          Mg:   23.0         Na:    70.0          K:  19.2       NH4:   0.0
SO4:    10.6      HCO3:  111.6         Cl:   25.1        NO3:   0.5          F:   0.9
Sum Cations:  158.3  Sum Anions:   148.8  Cations/Anions: 1.06   Tot. P:   4.0
Tot. Al:  181.0     Ext. Al:    3.0     Fe:    90.0      Mn:      0.0     SiO2: 10.10

ID: 3A2-036   Name: LAKE SUMMITT                              State: NC  Date: 29NOV84
Sample Type: REGULAR               Latitude: 35-13'30"N    Longitude: 82-25'00"W
Elevation:  613   Surface Temp:  9.4  Stratified: MIXED       Site Depth:   33.2
Lake Area:     106 Watershed Area:   10710 WA/LA:   101.4 Hydro Type: RESERVOIR
Residence Time:  0.24  Secchi Depth:  2.1   Turbidity:    2.9      Color:    25
Closed pH: 6.72        Equil. pH: 7.66               ANC:  204.4         DOC:  0.80
Closed DIC:  3.63   Equil. DIC:  2.68    Meas. Cond:  27.9   Cal. Cond:  28.1
Ca:   89.8          Mg:   55.9         Na:    70.5          K:  18.7       NH4:   8.3
SO4:    27.9      HCO3:  200.9         Cl:   34.1        NO3:   5.8          F:   0.9
Sum Cations:  243.3  Sum Anions:   269.9  Cations/Anions: 0.90   Tot. P:   3.0
Tot. Al:   47.0     Ext. Al:    0.0     Fe:    50.0      Mn:    220.0     SiO2: 10.07

ID: 3A2-038   Name: LAKE SEQUOYAH                             State: NC  Date: 25NOV84
Sample Type: REGULAR               Latitude: 35-03'45"N    Longitude: 83-13'15"W
Elevation: 1103   Surface Temp:  4.6  Stratified: MIXED       Site Depth:    6.7
Lake Area:      18 Watershed Area:    3699 WA/LA:   204.4 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  1.8   Turbidity:    3.0      Color:    35
Closed pH: 6.46        Equil. pH: 7.15               ANC:   69.0         DOC:  1.70
Closed DIC:  1.36   Equil. DIC:  1.02    Meas. Cond:  19.9   Cal. Cond:  20.4
Ca:   62.4          Mg:   30.4         Na:    62.6          K:  14.8       NH4:   2.3
SO4:    39.3      HCO3:   59.9         Cl:   52.5        NO3:  10.2          F:   0.6
Sum Cations:  172.8  Sum Anions:   162.6  Cations/Anions: 1.06   Tot. P:   8.0
Tot. Al:  265.0     Ext. Al:    3.0     Fe:   110.0      Mn:    110.0     SiO2:  5.21

ID: 3A2-039   Name: LAKE JOCASSEE                             State: SC  Date: 29NOV84
Sample Type: REGULAR               Latitude: 34-58'31"N    Longitude: 82-56'16"W
Elevation:  335   Surface Temp: 15.2  Stratified: MIXED       Site Depth:   13.1
Lake Area:    2245 Watershed Area:   37988 WA/LA:    16.9 Hydro Type: RESERVOIR
Residence Time:  0.46  Secchi Depth:  5.3   Turbidity:    0.4      Color:    10
Closed pH: 7.01        Equil. pH: 7.42               ANC:  116.1         DOC:  0.60
Closed DIC:  1.65   Equil. DIC:  1.43    Meas. Cond:  17.3   Cal. Cond:  18.5
Ca:   54.4          Mg:   35.4         Na:    59.6          K:  16.9       NH4:   0.2
SO4:    27.9      HCO3:  108.5         Cl:   24.0        NO3:   1.6          F:   1.4
Sum Cations:  166.5  Sum Anions:   163.6  Cations/Anions: 1.02   Tot. P:   5.0
Tot. Al:   14.0     Ext. Al:    0.0     Fe:    10.0      Mn:      0.0     SiO2:  7.92

ID: 3A2-042   Name: PINNACLE LAKE                             State: SC  Date: 29NOV84
Sample Type: REGULAR               Latitude: 35-01'45"N    Longitude: 82-41'50"W
Elevation:  351   Surface Temp: 10.0  Stratified: MIXED       Site Depth:    7.9
Lake Area:      10 Watershed Area:     445 WA/LA:    46.3 Hydro Type: RESERVOIR
Residence Time:  0.10  Secchi Depth:  4.4   Turbidity:    0.8      Color:    20
Closed pH: 6.87        Equil. pH: 7.49               ANC:  159.1         DOC:  1.30
Closed DIC:  2.51   Equil. DIC:  1.96    Meas. Cond:  21.1   Cal. Cond:  20.4
Ca:   55.4          Mg:   28.8         Na:    79.6          K:  17.1       NH4:   0.2
SO4:    25.0      HCO3:  142.1         Cl:   25.1        NO3:   0.0          F:   0.9
Sum Cations:  181.2  Sum Anions:   193.3  Cations/Anions: 0.94   Tot. P:   2.0
Tot. Al:   45.0     Ext. Al:    1.0     Fe:    60.0      Mn:      0.0     SiO2: 13.62
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A2-043   Name: TANKERSLEY LAKE                    State: SC  Date: 29NOV84
Sample Type: REGULAR            Latitude: 35-06'05"N   Longitude: 82-32'48"W
Elevation:  325   Surface Temp:  7.8  Stratified: MIXED      Site Depth:   2.1
Lake Area:       6 Watershed Area:   1181 WA/LA:   210.9 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  0.7   Turbidity:  12.8     Color:    50
Closed pH: 6.98         Equil. pH: 7.57               ANC:  159.7       DOC:  1.40
Closed DIC:  2.28   Equil. DIC:  1.87    Meas. Cond:  20.4   Cal. Cond:  21.5
Ca:   53.4          Mg:    31.3        Na:   87.4         K:  26.1       NH4:  0.1
SO4:    19.6       HCO3:  149.1        Cl:   27.1       NO3:   0.0          F:  1.2
Sum Cations:  198.4  Sum Anions:  197.1  Cations/Anions: 1.01   Tot. P:   6.0
Tot. Al:  317.0    Ext. Al:   2.0    Fe:    40.0      Mn:   10.0    SiO2: 13.98


ID: 3A2-044   Name: (NO NAME)                          State: SC  Date: 24NOV84
Sample Type: REGULAR            Latitude: 34-51'58"N   Longitude: 83-06'11"W
Elevation:  525   Surface Temp:  9.1  Stratified: MIXED      Site Depth:   5.8
Lake Area:       6 Watershed Area:    111 WA/LA:    18.8 Hydro Type: RESERVOIR
Residence Time:  0.18  Secchi Depth:  3.8   Turbidity:   1.8     Color:    25
Closed pH: 6.86         Equil. pH: 7.31               ANC:  100.2       DOC:  1.40
Closed DIC:  1.52   Equil. DIC:  1.38    Meas. Cond:  14.0   Cal. Cond:  14.3
Ca:   32.2          Mg:    35.4        Na:   48.9         K:  13.3       NH4:  0.3
SO4:    12.7       HCO3:   93.1        Cl:   23.7       NO3:   0.0          F:  0.7
Sum Cations:  130.3  Sum Anions:  130.3  Cations/Anions: 1.00   Tot. P:   3.0
Tot. Al:   39.0    Ext. Al:   2.0    Fe:    10.0      Mn:    0.0    SiO2:  6.96


ID: 3A2-045   Name: YONAH LAKE                         State: SC  Date: 24NOV84
Sample Type: REGULAR            Latitude: 34-41'19"N   Longitude: 83-20'19"W
Elevation:  227   Surface Temp: 10.5  Stratified: MIXED      Site Depth:  17.7
Lake Area:     117 Watershed Area: 126053 WA/LA:  1081.1 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  0.7   Turbidity:  10.1     Color:    35
Closed pH: 6.65         Equil. pH: 7.35               ANC:  110.5       DOC:  0.80
Closed DIC:  1.98   Equil. DIC:  1.39    Meas. Cond:  15.7   Cal. Cond:  17.2
Ca:   42.9          Mg:    32.9        Na:   50.9         K:  15.9       NH4:  3.2
SO4:    19.6       HCO3:  119.4        Cl:   23.4       NO3:   3.0          F:  0.7
Sum Cations:  145.9  Sum Anions:  166.2  Cations/Anions: 0.88   Tot. P:   8.0
Tot. Al:  311.0    Ext. Al:   4.0    Fe:    30.0      Mn:  101.0    SiO2:  8.51


ID: 3A2-046   Name: TOCCOA RESERVOIR                   State: GA  Date: 24NOV84
Sample Type: REGULAR            Latitude: 34-36'50"N   Longitude: 83-21'34"W
Elevation:  375   Surface Temp:  7.1  Stratified: MIXED      Site Depth:   2.4
Lake Area:      12 Watershed Area:    932 WA/LA:    78.3 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  0.6   Turbidity:  14.8     Color:    75
Closed pH: 6.81         Equil. pH: 7.52               ANC:  159.7       DOC:  1.70
Closed DIC:  2.57   Equil. DIC:  1.81    Meas. Cond:  22.2   Cal. Cond:  23.1
Ca:   52.9          Mg:    46.9        Na:   76.6         K:  20.7       NH4:  5.5
SO4:    14.4       HCO3:  160.0        Cl:   40.6       NO3:   3.9          F:  1.0
Sum Cations:  202.7  Sum Anions:  220.1  Cations/Anions: 0.92   Tot. P:   4.0
Tot. Al:   49.0    Ext. Al:   3.0    Fe:    30.0      Mn:  107.0    SiO2: 11.53


ID: 3A2-047   Name: LAKE LOUISE                        State: GA  Date: 24NOV84
Sample Type: REGULAR            Latitude: 34-36'10"N   Longitude: 83-16'57"W
Elevation:  229   Surface Temp: 12.0  Stratified: MIXED      Site Depth:  16.5
Lake Area:      65 Watershed Area:    831 WA/LA:    12.8 Hydro Type: RESERVOIR
Residence Time:  1.06  Secchi Depth:  3.0   Turbidity:   2.0     Color:    25
Closed pH: 6.80         Equil. pH: 7.81               ANC:  332.9       DOC:  1.00
Closed DIC:  5.44   Equil. DIC:  3.92    Meas. Cond:  43.0   Cal. Cond:  44.7
Ca:  188.1          Mg:    75.7        Na:  111.4         K:  30.4       NH4:  5.3
SO4:    37.1       HCO3:  318.6        Cl:   51.6       NO3:   0.7          F:  1.3
Sum Cations:  410.9  Sum Anions:  409.8  Cations/Anions: 1.00   Tot. P:   2.0
Tot. Al:   12.0    Ext. Al:   3.0    Fe:    60.0      Mn:  319.0    SiO2: 12.21
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A2-048   Name: HARPER POND                           State: SC  Date: 24NOV84
Sample Type: REGULAR              Latitude: 34-39'13"N    Longitude: 83-11'28"W
Elevation:  210   Surface Temp:  7.5  Stratified: MIXED      Site Depth:   2.7
Lake Area:       3 Watershed Area:    238 WA/LA:     85.0 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  2.4   Turbidity:   4.8      Color:   30
Closed pH: 7.12        Equil. pH: 7.83               ANC:  336.1        DOC:  1.10
Closed DIC:  4.54   Equil. DIC:  3.88    Meas. Cond:  36.9   Cal. Cond:  38.1
Ca:  118.3           Mg:   65.8       Na:  134.8          K:  29.9       NH4:  0.5
SO4:   13.7        HCO3:  331.8       Cl:   34.1        NO3:   0.0         F:  1.1
Sum Cations:  349.4  Sum Anions:  381.7  Cations/Anions: 0.92   Tot. P:   4.0
Tot. Al:   77.0    Ext. Al:   2.0    Fe:    30.0      Mn:    0.0    SiO2: 17.82
```

```
ID: 3A2-049   Name: RUSSELL LAKE                          State: GA  Date: 24NOV84
Sample Type: REGULAR              Latitude: 34-29'23"N    Longitude: 83-29'49"W
Elevation:  302   Surface Temp: 11.1  Stratified: MIXED      Site Depth:  10.7
Lake Area:      37 Watershed Area:   1608 WA/LA:     43.7 Hydro Type: RESERVOIR
Residence Time:  0.21  Secchi Depth:  4.6   Turbidity:   1.1      Color:   15
Closed pH: 7.09        Equil. pH: 7.67               ANC:  222.4        DOC:  1.20
Closed DIC:  2.96   Equil. DIC:  3.08    Meas. Cond:  28.1   Cal. Cond:  28.9
Ca:   70.9           Mg:   60.0       Na:   98.7          K:  29.7       NH4:  0.3
SO4:   19.4        HCO3:  219.8       Cl:   38.4        NO3:   0.0         F:  1.5
Sum Cations:  259.6  Sum Anions:  279.5  Cations/Anions: 0.93   Tot. P:   4.0
Tot. Al:   28.0    Ext. Al:   1.8    Fe:    20.0      Mn:    0.0    SiO2: 14.45
```

```
ID: 3A2-053   Name: THORPE LAKE                           State: NC  Date: 25NOV84
Sample Type: REGULAR              Latitude: 35-10'30"N    Longitude: 83-09'00"W
Elevation: 1064   Surface Temp: 10.5  Stratified: MIXED      Site Depth:  22.3
Lake Area:     574 Watershed Area:  10062 WA/LA:     17.5 Hydro Type: RESERVOIR
Residence Time:  0.75  Secchi Depth:  3.3   Turbidity:   1.7      Color:   25
Closed pH: 6.52        Equil. pH: 7.25               ANC:   83.6        DOC:  1.40
Closed DIC:  1.61   Equil. DIC:  1.08    Meas. Cond:  15.3   Cal. Cond:  16.0
Ca:   49.9           Mg:   23.9       Na:   50.0          K:  11.8       NH4:  3.5
SO4:   23.1        HCO3:   81.3       Cl:   32.7        NO3:   1.3         F:  0.7
Sum Cations:  139.2  Sum Anions:  139.2  Cations/Anions: 1.00   Tot. P:   2.0
Tot. Al:   40.0    Ext. Al:   1.0    Fe:    80.0      Mn:  180.0    SiO2:  5.09
```

```
ID: 3A2-055   Name: HIWASSEE LAKE                         State: NC  Date: 20NOV84
Sample Type: REGULAR              Latitude: 35-09'45"N    Longitude: 84-10'00"W
Elevation:  465   Surface Temp: 16.1  Stratified: MIXED      Site Depth:  64.0
Lake Area:    2729 Watershed Area: 235006 WA/LA:     86.1 Hydro Type: RESERVOIR
Residence Time:  0.53  Secchi Depth:  2.4   Turbidity:   2.5      Color:   20
Closed pH: 6.69        Equil. pH: 7.51               ANC:  161.1        DOC:  0.80
Closed DIC:  2.81   Equil. DIC:  1.98    Meas. Cond:  24.5   Cal. Cond:  26.0
Ca:   82.8           Mg:   56.8       Na:   57.9          K:  32.5       NH4:  3.9
SO4:   34.8        HCO3:  149.9       Cl:   31.0        NO3:   7.7         F:  1.4
Sum Cations:  233.9  Sum Anions:  224.9  Cations/Anions: 1.04   Tot. P:   5.0
Tot. Al:   46.0    Ext. Al:   2.0    Fe:     0.0      Mn:   54.0    SiO2:  6.86
```

```
ID: 3A2-056   Name: BLUE RIDGE LAKE                       State: GA  Date: 20NOV84
Sample Type: REG/SPC/LTM/         Latitude: 34-51'45"N    Longitude: 84-16'00"W
Elevation:  515   Surface Temp: 14.7  Stratified: MIXED      Site Depth:  29.6
Lake Area:    1280 Watershed Area:  57177 WA/LA:     44.7 Hydro Type: RESERVOIR
Residence Time:  0.39  Secchi Depth:  3.2   Turbidity:   1.5      Color:   15
Closed pH: 6.97        Equil. pH: 7.40               ANC:  113.4        DOC:  1.20
Closed DIC:  1.66   Equil. DIC:  1.98    Meas. Cond:  16.3   Cal. Cond:  17.7
Ca:   49.4           Mg:   37.0       Na:   50.0          K:  16.4       NH4:  0.9
SO4:   22.1        HCO3:  119.3       Cl:   23.7        NO3:   0.6         F:  1.1
Sum Cations:  153.8  Sum Anions:  166.8  Cations/Anions: 0.92   Tot. P:   2.0
Tot. Al:   44.0    Ext. Al:   1.0    Fe:     0.0      Mn:    6.0    SiO2:  7.74
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A2-057   Name: FAUSETT LAKE                     State: GA  Date: 24NOV84
Sample Type: REGULAR           Latitude: 34-31'48"N   Longitude: 84-16'45"W
Elevation:  490   Surface Temp:  7.0  Stratified: MIXED     Site Depth:   3.0
Lake Area:      12 Watershed Area:   2512 WA/LA:   218.4 Hydro Type: RESERVOIR
Residence Time:  0.01  Secchi Depth:  3.0   Turbidity:   2.2     Color:   25
Closed pH: 6.48       Equil. pH: 7.80              ANC:   95.8       DOC:  0.50
Closed DIC:  1.99   Equil. DIC:  1.10    Meas. Cond:  14.3   Cal. Cond:  14.6
Ca:   33.9          Mg:   29.6       Na:   52.2          K:  17.1      NH4:  0.2
SO4:   20.8       HCO3:   78.4       Cl:   24.3        NO3:   0.1         F:  0.6
Sum Cations:  133.3  Sum Anions:  124.3  Cations/Anions: 1.07   Tot. P:   2.0
Tot. Al:   48.0    Ext. Al:   3.0    Fe:   90.0       Mn:    7.0    SiO2:  7.90

ID: 3A2-058   Name: GRANDVIEW LAKE                   State: GA  Date: 24NOV84
Sample Type: REGULAR           Latitude: 34-30'06"N   Longitude: 84-23'50"W
Elevation:  424   Surface Temp: 11.1  Stratified: MIXED     Site Depth:  11.0
Lake Area:      26 Watershed Area:    984 WA/LA:    38.4 Hydro Type: RESERVOIR
Residence Time:  0.20  Secchi Depth:  3.7   Turbidity:   1.6     Color:   20
Closed pH: 7.04       Equil. pH: 7.81              ANC:  308.1       DOC:  1.20
Closed DIC:  4.21   Equil. DIC:  3.67    Meas. Cond:  39.6   Cal. Cond:  40.8
Ca:  167.2          Mg:   83.1       Na:   89.2          K:  33.5      NH4:  0.8
SO4:   35.4       HCO3:  291.6       Cl:   43.7        NO3:   1.6         F:  2.1
Sum Cations:  373.8  Sum Anions:  375.0  Cations/Anions: 1.00   Tot. P:   3.0
Tot. Al:   54.0    Ext. Al:   2.0    Fe:  100.0       Mn:    0.0    SiO2: 11.60

ID: 3A2-059   Name: LAUREL LAKE                      State: TN  Date: 20NOV84
Sample Type: REGULAR           Latitude: 35-40'15"N   Longitude: 83-47'52"W
Elevation:  320   Surface Temp: 10.7  Stratified: MIXED     Site Depth:   4.9
Lake Area:      17 Watershed Area:    557 WA/LA:    32.8 Hydro Type: RESERVOIR
Residence Time:  0.13  Secchi Depth:  0.6   Turbidity:  11.5     Color:   40
Closed pH: 7.87       Equil. pH: 8.54              ANC: 1863.5       DOC:  1.45
Closed DIC: 22.14   Equil. DIC: 21.97    Meas. Cond: 195.5   Cal. Cond: 210.1
Ca: 1545.4          Mg:  350.4       Na:   59.4          K:  31.6      NH4:  4.2
SO4:  115.6       HCO3: 1831.0       Cl:   20.9        NO3:   1.0         F:  4.0
Sum Cations: 1991.0  Sum Anions: 1992.6  Cations/Anions: 1.00   Tot. P:   6.0
Tot. Al:  112.0    Ext. Al:   2.0    Fe:    0.0       Mn:  210.0    SiO2:  6.77

ID: 3A3-001   Name: TIMBER LAKE                      State: VA  Date: 21NOV84
Sample Type: REGULAR           Latitude: 37-19'00"N   Longitude: 79-16'15"W
Elevation:  248   Surface Temp:  8.4  Stratified: MIXED     Site Depth:   5.2
Lake Area:      23 Watershed Area:   1259 WA/LA:    56.0 Hydro Type: RESERVOIR
Residence Time:  0.16  Secchi Depth:  0.7   Turbidity:  11.0     Color:   70
Closed pH: 7.05       Equil. pH: 8.05              ANC:  603.7       DOC:  3.60
Closed DIC:  8.79   Equil. DIC:  6.81    Meas. Cond:  77.6   Cal. Cond:  80.5
Ca:  359.8          Mg:  165.3       Na:  120.1          K:  51.4      NH4: 14.2
SO4:   59.5       HCO3:  622.9       Cl:   85.5        NO3:   2.8         F:  2.8
Sum Cations:  710.9  Sum Anions:  775.3  Cations/Anions: 0.92   Tot. P:  13.0
Tot. Al:  184.0    Ext. Al:   1.0    Fe:  420.0       Mn:    0.0    SiO2: 11.33

ID: 3A3-004   Name: LAKE JAMES                       State: NC  Date: 21NOV84
Sample Type: REGULAR           Latitude: 35-44'30"N   Longitude: 81-54'00"W
Elevation:  364   Surface Temp: 12.6  Stratified: STRONG    Site Depth:  30.5
Lake Area:    2435 Watershed Area:  99868 WA/LA:    41.0 Hydro Type: RESERVOIR
Residence Time:  0.66  Secchi Depth:  3.7   Turbidity:   1.3     Color:   20
Closed pH: 7.11       Equil. pH: 7.70              ANC:  252.1       DOC:  1.20
Closed DIC:  3.64   Equil. DIC:  3.22    Meas. Cond:  44.4   Cal. Cond:  46.4
Ca:  111.8          Mg:   93.8       Na:  172.7          K:  35.5      NH4:  0.7
SO4:   82.7       HCO3:  238.7       Cl:   76.7        NO3:   3.5         F:  2.1
Sum Cations:  414.6  Sum Anions:  404.0  Cations/Anions: 1.03   Tot. P:   8.0
Tot. Al:   29.0    Ext. Al:   1.0    Fe:    0.0       Mn:   40.0    SiO2:  9.25
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A3-006   Name: BURNETT RESERVOIR                    State: NC  Date: 21NOV84
Sample Type: REGULAR              Latitude: 35-40'00"N    Longitude: 82-20'20"W
Elevation:  780   Surface Temp: 11.6  Stratified: MIXED      Site Depth:    4.3
Lake Area:      130 Watershed Area:   5765 WA/LA:      44.3 Hydro Type: RESERVOIR
Residence Time:  0.06  Secchi Depth:  4.1  Turbidity:   0.8      Color:    15
Closed pH: 6.79         Equil. pH: 7.18            ANC:    79.5          DOC:  1.00
Closed DIC:  1.42   Equil. DIC:  1.28   Meas. Cond:  14.5   Cal. Cond:  15.4
Ca:   46.9          Mg:    35.4      Na:    39.1         K:  11.5        NH4:  0.9
SO4:   36.2       HCO3:   77.1       Cl:   15.5        NO3:   3.5           F:  0.9
Sum Cations:  134.0  Sum Anions:  133.3  Cations/Anions: 1.01   Tot. P:    5.0
Tot. Al:   27.0    Ext. Al:   1.0    Fe:     0.0     Mn:   20.0    SiO2:  6.51

ID: 3A3-009   Name: LAKE LANIER                          State: SC  Date: 25NOV84
Sample Type: REGULAR              Latitude: 35-11'40"N    Longitude: 82-14'05"W
Elevation:  318   Surface Temp:  9.6  Stratified: MIXED      Site Depth:   15.2
Lake Area:       34 Watershed Area:   1839 WA/LA:      54.4 Hydro Type: RESERVOIR
Residence Time:  0.25  Secchi Depth:  2.3  Turbidity:   3.7      Color:    40
Closed pH: 6.70         Equil. pH: 7.72            ANC:  249.8          DOC:  1.00
Closed DIC:  4.23   Equil. DIC:  2.82   Meas. Cond:  30.5   Cal. Cond:  30.1
Ca:   85.3          Mg:    65.8      Na:    95.7         K:  22.8        NH4:  2.3
SO4:   27.5       HCO3:  227.2       Cl:   31.9        NO3:   0.0           F:  1.3
Sum Cations:  272.0  Sum Anions:  288.3  Cations/Anions: 0.94   Tot. P:    4.0
Tot. Al:   21.0    Ext. Al:   3.0    Fe:    70.0     Mn:  230.0    SiO2: 13.66

ID: 3A3-011   Name: (NO NAME)                            State: SC  Date: 25NOV84
Sample Type: REGULAR              Latitude: 35-05'15"N    Longitude: 81-44'35"W
Elevation:  209   Surface Temp:  6.7  Stratified: MIXED      Site Depth:    2.1
Lake Area:       33 Watershed Area:   2885 WA/LA:      88.8 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  0.8  Turbidity:  12.9      Color:    50
Closed pH: 6.86         Equil. pH: 7.62            ANC:  209.8          DOC:  1.20
Closed DIC:  3.11   Equil. DIC:  2.43   Meas. Cond:  35.3   Cal. Cond:  37.3
Ca:  103.8          Mg:    93.8      Na:    77.0         K:  39.9        NH4:  2.4
SO4:   39.6       HCO3:  220.0       Cl:   65.2        NO3:  15.5           F:  2.5
Sum Cations:  317.0  Sum Anions:  343.1  Cations/Anions: 0.92   Tot. P:    3.0
Tot. Al:  204.0    Ext. Al:   3.0    Fe:    60.0     Mn:    0.0    SiO2:  7.67

ID: 3A3-012   Name: (NO NAME)                            State: SC  Date: 29NOV84
Sample Type: REGULAR              Latitude: 34-57'05"N    Longitude: 82-23'37"W
Elevation:  362   Surface Temp: 10.9  Stratified: MIXED      Site Depth:   13.4
Lake Area:        7 Watershed Area:     88 WA/LA:      12.6 Hydro Type: RESERVOIR
Residence Time:  0.89  Secchi Depth:  5.1  Turbidity:   1.3      Color:    25
Closed pH: 6.60         Equil. pH: 7.14            ANC:    65.4          DOC:  1.80
Closed DIC:  1.09   Equil. DIC:  0.80   Meas. Cond:  13.5   Cal. Cond:  14.2
Ca:   29.4          Mg:    31.3      Na:    47.4         K:  16.6        NH4:  0.1
SO4:   36.6       HCO3:   47.3       Cl:   25.7        NO3:   0.1           F:  1.2
Sum Cations:  125.1  Sum Anions:  110.8  Cations/Anions: 1.13   Tot. P:    0.0
Tot. Al:    8.0    Ext. Al:   2.0    Fe:    40.0     Mn:    0.0    SiO2:  6.73

ID: 3A3-014   Name: LAWSON LAKE                          State: GA  Date: 24NOV84
Sample Type: REGULAR              Latitude: 34-37'37"N    Longitude: 83-25'45"W
Elevation:  389   Surface Temp:  7.2  Stratified: MIXED      Site Depth:    4.3
Lake Area:        4 Watershed Area:    526 WA/LA:     122.3 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  2.3  Turbidity:   4.5      Color:    30
Closed pH: 7.01         Equil. pH: 7.68            ANC:  227.4          DOC:  1.10
Closed DIC:  3.27   Equil. DIC:  2.74   Meas. Cond:  26.9   Cal. Cond:  27.5
Ca:   82.3          Mg:    71.6      Na:    77.9         K:  23.3        NH4:  0.6
SO4:   13.7       HCO3:  218.6       Cl:   28.8        NO3:   0.7           F:  1.3
Sum Cations:  255.7  Sum Anions:  263.4  Cations/Anions: 0.97   Tot. P:    3.0
Tot. Al:   60.0    Ext. Al:   3.0    Fe:    60.0     Mn:    8.0    SiO2: 11.46
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A3-017   Name: (NO NAME)                       State: GA  Date: 26NOV84
Sample Type: REGULAR            Latitude: 34-17'27"N    Longitude: 84-04'53"W
Elevation:  352   Surface Temp:  7.4  Stratified: MIXED      Site Depth:   1.8
Lake Area:       7 Watershed Area:    207 WA/LA:    31.4 Hydro Type: RESERVOIR
Residence Time:  0.05  Secchi Depth:  0.8  Turbidity:  14.9      Color:   65
Closed pH: 7.37       Equil. pH: 7.94             ANC:  482.1         DOC:  3.90
Closed DIC:  5.77  Equil. DIC:  5.76    Meas. Cond:  63.9   Cal. Cond:  62.4
Ca:  222.1          Mg:  134.9       Na:  148.3         K:  64.7        NH4: 15.4
SO4:   27.5      HCO3:  435.6       Cl:   75.3       NO3:   15.6           F:  2.9
Sum Cations:  585.4  Sum Anions:  557.8  Cations/Anions: 1.05   Tot. P:  19.0
Tot. Al:  214.0    Ext. Al:    3.0    Fe:  360.0      Mn:    40.0     SiO2: 15.76

ID: 3A3-021   Name: WINDER RESERVOIR                State: GA  Date: 27NOV84
Sample Type: REGULAR            Latitude: 34-00'42"N    Longitude: 83-44'36"W
Elevation:  257   Surface Temp:  8.2  Stratified: MIXED      Site Depth:   1.8
Lake Area:      11 Watershed Area:   1551 WA/LA:   142.3 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  1.8  Turbidity:   5.6      Color:   45
Closed pH: 6.84       Equil. pH: 7.68             ANC:  230.2         DOC:  1.50
Closed DIC:  3.45  Equil. DIC:  3.13    Meas. Cond:  45.3   Cal. Cond:  46.2
Ca:   90.3          Mg:   55.1       Na:  173.1         K:  61.1        NH4:  3.9
SO4:   29.8      HCO3:  245.5       Cl:  113.1       NO3:   32.5           F:  2.9
Sum Cations:  383.7  Sum Anions:  424.4  Cations/Anions: 0.90   Tot. P:  11.0
Tot. Al:  168.0    Ext. Al:    1.0    Fe:   60.0      Mn:    40.0     SiO2: 13.18

ID: 3A3-022   Name: LAKE SEAGRAVES                  State: GA  Date: 27NOV84
Sample Type: REGULAR            Latitude: 34-05'53"N    Longitude: 83-21'20"W
Elevation:  235   Surface Temp: 10.2  Stratified: MIXED      Site Depth:   5.2
Lake Area:      10 Watershed Area:    627 WA/LA:    64.6 Hydro Type: RESERVOIR
Residence Time:  0.10  Secchi Depth:  2.0  Turbidity:   4.8      Color:   60
Closed pH: 7.04       Equil. pH: 7.59             ANC:  184.8         DOC:  2.90
Closed DIC:  2.56  Equil. DIC:  2.30    Meas. Cond:  30.6   Cal. Cond:  30.8
Ca:   73.9          Mg:   55.9       Na:   95.7         K:  42.2        NH4:  7.3
SO4:   22.5      HCO3:  177.9       Cl:   63.2       NO3:    4.0           F:  2.3
Sum Cations:  275.1  Sum Anions:  270.1  Cations/Anions: 1.02   Tot. P:  10.0
Tot. Al:  157.0    Ext. Al:    1.0    Fe:    0.0      Mn:    10.0     SiO2:  6.90

ID: 3A3-026   Name: ELDER LAKE                      State: GA  Date: 27NOV84
Sample Type: REGULAR            Latitude: 34-00'00"N    Longitude: 83-48'10"W
Elevation:  314   Surface Temp: 10.1  Stratified: MIXED      Site Depth:   3.6
Lake Area:       5 Watershed Area:     80 WA/LA:    15.1 Hydro Type: RESERVOIR
Residence Time:  0.25  Secchi Depth:  2.5  Turbidity:   3.4      Color:   40
Closed pH: 7.09       Equil. pH: 7.54             ANC:  174.5         DOC:  4.60
Closed DIC:  2.25  Equil. DIC:  1.70    Meas. Cond:  43.2   Cal. Cond:  43.9
Ca:  102.5          Mg:   61.3       Na:  154.0         K:  58.9        NH4:  1.4
SO4:   66.0      HCO3:  162.8       Cl:  124.4       NO3:    3.2           F:  2.9
Sum Cations:  378.3  Sum Anions:  359.5  Cations/Anions: 1.05   Tot. P:  15.5
Tot. Al:  186.0    Ext. Al:    2.5    Fe:  260.0      Mn:    15.0     SiO2:  4.73

ID: 3A3-027   Name: (NO NAME)                       State: GA  Date: 27NOV84
Sample Type: REGULAR            Latitude: 33-57'00"N    Longitude: 83-16'30"W
Elevation:  223   Surface Temp:  9.5  Stratified: MIXED      Site Depth:   3.0
Lake Area:       5 Watershed Area:     88 WA/LA:    16.9 Hydro Type: RESERVOIR
Residence Time:  0.27  Secchi Depth:  2.0  Turbidity:   4.4      Color:   50
Closed pH: 7.22       Equil. pH: 7.72             ANC:  255.2         DOC:  4.10
Closed DIC:  3.21  Equil. DIC:  2.99    Meas. Cond:  39.5   Cal. Cond:  38.9
Ca:   83.8          Mg:   69.9       Na:  108.8         K:  57.0        NH4: 18.0
SO4:   19.6      HCO3:  247.9       Cl:   79.8       NO3:    4.8           F:  2.7
Sum Cations:  337.6  Sum Anions:  355.3  Cations/Anions: 0.95   Tot. P:  15.0
Tot. Al:  231.0    Ext. Al:    1.0    Fe:  260.0      Mn:    60.0     SiO2: 11.64
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A3-035   Name: JOELS LAKE                          State: GA  Date: 26NOV84
Sample Type: REGULAR              Latitude: 33-41'30"N    Longitude: 84-08'15"W
Elevation:  247   Surface Temp: 10.0  Stratified: MIXED      Site Depth:   4.9
Lake Area:       9 Watershed Area:     145 WA/LA:     15.4 Hydro Type: RESERVOIR
Residence Time:  0.34  Secchi Depth:  2.1   Turbidity:   2.1      Color:   30
Closed pH: 7.07        Equil. pH: 7.81              ANC:  304.7         DOC:  4.30
Closed DIC:  4.05   Equil. DIC:  3.30    Meas. Cond:  50.2   Cal. Cond:  50.1
Ca:  159.2          Mg:    79.8        Na:  148.3         K:  53.7      NH4: 20.6
SO4:    37.9       HCO3:  270.0        Cl:  103.8       NO3:    1.9        F:  5.6
Sum Cations:  461.7  Sum Anions:  419.8  Cations/Anions: 1.10   Tot. P:   7.0
Tot. Al:    75.0    Ext. Al:    3.0    Fe:    90.0      Mn:    80.0    SiO2:  6.81

ID: 3A3-036   Name: GAINES LAKE                         State: GA  Date: 26NOV84
Sample Type: REGULAR              Latitude: 33-43'00"N    Longitude: 84-03'15"W
Elevation:  218   Surface Temp:  9.3  Stratified: MIXED      Site Depth:   3.0
Lake Area:      34 Watershed Area:    1241 WA/LA:     36.8 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.3   Turbidity:   3.9      Color:   25
Closed pH: 7.30        Equil. pH: 7.89              ANC:  359.0         DOC:  3.80
Closed DIC:  4.46   Equil. DIC:  4.01    Meas. Cond:  64.1   Cal. Cond:  65.7
Ca:  262.0          Mg:    69.9        Na:  191.4         K:  61.6      NH4:  6.4
SO4:  106.2        HCO3:  344.9        Cl:    94.8      NO3:    3.1        F:  7.6
Sum Cations:  591.4  Sum Anions:  557.4  Cations/Anions: 1.06   Tot. P:   5.0
Tot. Al:  140.0     Ext. Al:    2.0    Fe:    80.0      Mn:    80.0    SiO2:  7.98

ID: 3A3-038   Name: (NO NAME)                           State: GA  Date: 27NOV84
Sample Type: REGULAR              Latitude: 33-41'50"N    Longitude: 82-41'50"W
Elevation:  151   Surface Temp:  9.4  Stratified: MIXED      Site Depth:   4.6
Lake Area:       7 Watershed Area:     184 WA/LA:     27.1 Hydro Type: RESERVOIR
Residence Time:  0.28  Secchi Depth:  0.7   Turbidity:  10.4      Color:  120
Closed pH: 7.11        Equil. pH: 8.16              ANC:  742.8         DOC:  8.30
Closed DIC:  9.88   Equil. DIC:  8.54    Meas. Cond:  91.1   Cal. Cond:  88.5
Ca:  290.9          Mg:   162.1        Na:  237.5         K:  65.2      NH4: 47.5
SO4:    17.5       HCO3:  735.6        Cl:  101.0       NO3:    1.4        F:  5.2
Sum Cations:  803.2  Sum Anions:  863.9  Cations/Anions: 0.93   Tot. P:  35.0
Tot. Al:    69.0    Ext. Al:    2.0    Fe: 1810.0      Mn: 2030.0    SiO2: 17.86

ID: 3A3-044   Name: SHAMROCK LAKE                       State: GA  Date: 26NOV84
Sample Type: REGULAR              Latitude: 33-28'52"N    Longitude: 84-18'00"W
Elevation:  243   Surface Temp:  9.0  Stratified: MIXED      Site Depth:   4.0
Lake Area:      26 Watershed Area:     508 WA/LA:     19.8 Hydro Type: RESERVOIR
Residence Time:  0.22  Secchi Depth:  0.6   Turbidity:   8.8      Color:   80
Closed pH: 8.27        Equil. pH: 8.11              ANC:  625.3         DOC:  3.80
Closed DIC:  7.08   Equil. DIC:  7.38    Meas. Cond: 133.6   Cal. Cond: 137.9
Ca:  252.5          Mg:   119.3        Na:  752.1         K:  75.9      NH4:  0.5
SO4:  228.0        HCO3:  598.3        Cl:  347.3       NO3:   16.9        F:  8.8
Sum Cations: 1200.4  Sum Anions: 1201.7  Cations/Anions: 1.00   Tot. P:  71.0
Tot. Al:  145.0     Ext. Al:    2.0    Fe:   360.0      Mn:   710.0    SiO2: 15.74

ID: 3A3-045   Name: ROCK EAGLE LAKE                     State: GA  Date: 27NOV84
Sample Type: REGULAR              Latitude: 33-25'00"N    Longitude: 83-23'40"W
Elevation:  162   Surface Temp: 10.7  Stratified: MIXED      Site Depth:   6.1
Lake Area:      35 Watershed Area:     730 WA/LA:     21.1 Hydro Type: RESERVOIR
Residence Time:  0.45  Secchi Depth:  1.5   Turbidity:   5.6      Color:   55
Closed pH: 7.54        Equil. pH: 7.99              ANC:  468.0         DOC:  7.00
Closed DIC:  6.06   Equil. DIC:  6.00    Meas. Cond:  18.9   Cal. Cond:  61.1
Ca:  188.1          Mg:   149.7        Na:  189.2         K:  36.8      NH4:  1.0
SO4:    27.5       HCO3:  469.7        Cl:    78.4      NO3:    3.2        F:  5.8
Sum Cations:  565.0  Sum Anions:  585.3  Cations/Anions: 0.97   Tot. P:  49.0
Tot. Al:    74.0    Ext. Al:    1.0    Fe:   150.0      Mn:   300.0    SiO2: 15.84
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A3-046   Name: (NO NAME)                        State: GA  Date: 26NOV84
Sample Type: REGULAR             Latitude: 33-23'40"N    Longitude: 84-14'33"W
Elevation:  241   Surface Temp:  8.8  Stratified: MIXED      Site Depth:   3.3
Lake Area:       5 Watershed Area:     655 WA/LA:    128.4 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  2.7   Turbidity:   4.9      Color:   40
Closed pH: 7.01        Equil. pH: 7.75               ANC:  257.9         DOC:  1.70
Closed DIC:  3.74   Equil. DIC:  3.35    Meas. Cond:  40.5   Cal. Cond:  41.4
Ca:   89.8           Mg:   84.7        Na:  128.3         K:  58.0       NH4:  1.3
SO4:   23.3       HCO3:  253.1        Cl:   92.0        NO3:   5.0          F:  3.4
Sum Cations:  362.2  Sum Anions:  377.4  Cations/Anions: 0.96   Tot. P:  10.0
Tot. Al:   51.0    Ext. Al:   2.0    Fe:  210.0       Mn:  100.0     SiO2: 10.91

ID: 3A3-050   Name: AIKEN POND                       State: GA  Date: 27NOV84
Sample Type: REGULAR             Latitude: 33-14'10"N    Longitude: 82-49'45"W
Elevation:  123   Surface Temp: 10.3  Stratified: MIXED      Site Depth:   6.1
Lake Area:      10 Watershed Area:     218 WA/LA:     22.0 Hydro Type: RESERVOIR
Residence Time:  0.44  Secchi Depth:  1.4   Turbidity:   4.8      Color:  150
Closed pH: 6.34        Equil. pH: 7.45               ANC:  157.5         DOC:  5.90
Closed DIC:  3.46   Equil. DIC:  1.39    Meas. Cond:  36.3   Cal. Cond:  34.5
Ca:   73.9           Mg:   85.5        Na:   90.0         K:  23.5       NH4: 23.3
SO4:   13.9       HCO3:  127.5        Cl:  137.1        NO3:   3.1          F:  1.8
Sum Cations:  296.4  Sum Anions:  283.6  Cations/Anions: 1.05   Tot. P:  12.0
Tot. Al:   62.0    Ext. Al:   1.0    Fe: 1630.0       Mn:  280.0     SiO2:  7.25

ID: 3A3-052   Name: HARPS LAKE                       State: GA  Date: 26NOV84
Sample Type: REGULAR             Latitude: 33-37'05"N    Longitude: 84-11'24"W
Elevation:  224   Surface Temp:  8.6  Stratified: MIXED      Site Depth:   2.7
Lake Area:       5 Watershed Area:     243 WA/LA:     51.7 Hydro Type: RESERVOIR
Residence Time:  0.06  Secchi Depth:  2.3   Turbidity:   4.2      Color:   25
Closed pH: 7.34        Equil. pH: 8.02               ANC:  480.6         DOC:  1.60
Closed DIC:  6.13   Equil. DIC:  5.72    Meas. Cond:  58.7   Cal. Cond:  58.9
Ca:  215.6           Mg:  140.7        Na:  152.3         K:  43.0       NH4:  0.6
SO4:   25.4       HCO3:  466.2        Cl:   62.1        NO3:   0.3          F:  3.4
Sum Cations:  552.0  Sum Anions:  558.8  Cations/Anions: 0.99   Tot. P:   3.0
Tot. Al:   65.0    Ext. Al:   3.0    Fe:   70.0       Mn:   60.0     SiO2: 16.85

ID: 3A3-053   Name: HARTWELL LAKE                    State: SC  Date: 27NOV84
Sample Type: REGULAR             Latitude: 34-22'30"N    Longitude: 82-50'30"W
Elevation:  198   Surface Temp: 15.9  Stratified: MIXED      Site Depth:  56.4
Lake Area:  20130 Watershed Area: 534138 WA/LA:     26.5 Hydro Type: RESERVOIR
Residence Time:  2.42  Secchi Depth:  2.9   Turbidity:   1.1      Color:   15
Closed pH: 6.92        Equil. pH: 7.55               ANC:  172.3         DOC:  0.90
Closed DIC:  2.64   Equil. DIC:  2.24    Meas. Cond:  28.0   Cal. Cond:  29.9
Ca:   75.8           Mg:   57.6        Na:   95.7         K:  26.1       NH4:  2.2
SO4:   40.8       HCO3:  193.1        Cl:   43.7        NO3:   1.7          F:  1.9
Sum Cations:  257.4  Sum Anions:  281.6  Cations/Anions: 0.91   Tot. P:   2.0
Tot. Al:   25.0    Ext. Al:   1.0    Fe:   60.0       Mn:   20.0     SiO2:  7.45

ID: 3A3-056   Name: RHODHISS LAKE                    State: NC  Date: 21NOV84
Sample Type: REGULAR             Latitude: 35-47'05"N    Longitude: 81-27'30"W
Elevation:  302   Surface Temp: 11.4  Stratified: MIXED      Site Depth:  14.0
Lake Area:     842 Watershed Area: 284009 WA/LA:    337.3 Hydro Type: RESERVOIR
Residence Time:  0.05  Secchi Depth:  1.5   Turbidity:   4.2      Color:   20
Closed pH: 7.12        Equil. pH: 7.78               ANC:  327.5         DOC:  1.40
Closed DIC:  4.58   Equil. DIC:  4.03    Meas. Cond:  70.0   Cal. Cond:  74.9
Ca:  136.2           Mg:   88.0        Na:  434.1         K:  45.3       NH4:  5.0
SO4:   88.3       HCO3:  288.2        Cl:  208.5        NO3:   9.0          F:  3.6
Sum Cations:  708.7  Sum Anions:  598.0  Cations7Anions: 1.19   Tot. P:  15.0
Tot. Al:  141.0    Ext. Al:   2.0    Fe:   30.0       Mn:   60.0     SiO2: 13.38
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A3-057   Name: LAKE SPIVEY                            State: GA  Date: 26NOV84
Sample Type: REGULAR             Latitude: 33-30'52"N    Longitude: 84-17'30"W
Elevation:  229   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   9.7
Lake Area:     187 Watershed Area:   2955 WA/LA:     15.8 Hydro Type: RESERVOIR
Residence Time:  0.66  Secchi Depth:  1.5   Turbidity:   2.3      Color:   25
Closed pH: 7.27        Equil. pH: 7.89              ANC:  371.4        DOC:  2.20
Closed DIC:  4.79   Equil. DIC:  4.52   Meas. Cond:  56.5   Cal. Cond:  56.2
Ca:  187.1          Mg:  114.3        Na:   156.6        K:  45.3       NH4:  4.7
SO4:   59.8       HCO3:  347.1        Cl:   91.1       NO3:   1.2         F:  3.5
Sum Cations:  508.1  Sum Anions:  503.6  Cations/Anions: 1.01   Tot. P:   3.0
Tot. Al:   61.0    Ext. Al:    0.0    Fe:    30.0      Mn:    70.0    SiO2:  9.89

ID: 3A3-058   Name: WILBUR LAKE                            State: TN  Date: 29NOV84
Sample Type: REGULAR             Latitude: 36-20'17"N    Longitude: 82-07'05"W
Elevation:  503   Surface Temp:  9.2  Stratified: MIXED      Site Depth:   1.8
Lake Area:      23 Watershed Area: 121396 WA/LA:  5301.1 Hydro Type: RESERVOIR
Residence Time:  0.00  Secchi Depth:  1.8   Turbidity:   2.1      Color:   15
Closed pH: 6.98        Equil. pH: 8.00              ANC:  501.7        DOC:  1.15
Closed DIC:  7.35   Equil. DIC:  6.50   Meas. Cond:  80.0   Cal. Cond:  80.1
Ca:  282.4          Mg:  263.6        Na:    91.1        K:  34.4       NH4:  0.4
SO4:  131.5       HCO3:  503.2        Cl:   70.4       NO3:  51.6         F:  3.3
Sum Cations:  672.1  Sum Anions:  761.2  Cations/Anions: 0.88   Tot. P:   2.5
Tot. Al:   52.0    Ext. Al:    1.5    Fe:    30.0      Mn:     5.0    SiO2:  7.25

ID: 3A3-060   Name: STEWARTS LAKE                          State: GA  Date: 27NOV84
Sample Type: REGULAR             Latitude: 33-38'21"N    Longitude: 83-05'05"W
Elevation:  186   Surface Temp:  8.2  Stratified: MIXED      Site Depth:   2.1
Lake Area:       5 Watershed Area:    197 WA/LA:     41.9 Hydro Type: RESERVOIR
Residence Time:  0.08  Secchi Depth:  2.0   Turbidity:   3.8      Color:   70
Closed pH: 7.19        Equil. pH: 8.17              ANC:  757.5        DOC:  6.00
Closed DIC:  9.96   Equil. DIC:  8.86   Meas. Cond:  92.8   Cal. Cond:  92.1
Ca:  274.9          Mg:  179.3        Na:   348.4        K:  64.7       NH4:  3.4
SO4:   23.5       HCO3:  753.2        Cl:  100.7       NO3:   2.0         F:  4.4
Sum Cations:  870.9  Sum Anions:  887.8  Cations/Anions: 0.98   Tot. P:  12.0
Tot. Al:   41.0    Ext. Al:    1.0    Fe:   990.0      Mn:    50.0    SiO2: 19.92

ID: 3A3-061   Name: (NO NAME)                              State: GA  Date: 26NOV84
Sample Type: REGULAR             Latitude: 33-29'45"N    Longitude: 84-13'33"W
Elevation:  223   Surface Temp:  9.3  Stratified: MIXED      Site Depth:   4.0
Lake Area:       5 Watershed Area:    181 WA/LA:     34.8 Hydro Type: RESERVOIR
Residence Time:  0.13  Secchi Depth:  2.5   Turbidity:   3.6      Color:   30
Closed pH: 7.17        Equil. pH: 7.70              ANC:  236.6        DOC:  2.00
Closed DIC:  3.16   Equil. DIC:  2.74   Meas. Cond:  38.2   Cal. Cond:  39.4
Ca:  110.3          Mg:   88.0        Na:   103.1        K:  45.0       NH4:  1.1
SO4:   34.6       HCO3:  229.8        Cl:   79.0       NO3:   5.2         F:  3.3
Sum Cations:  347.5  Sum Anions:  352.3  Cations/Anions: 0.99   Tot. P:  10.0
Tot. Al:   97.0    Ext. Al:    1.0    Fe:    70.0      Mn:    80.0    SiO2:  7.89

ID: 3A3-063   Name: (NO NAME)                              State: GA  Date: 26NOV84
Sample Type: REGULAR             Latitude: 33-58'56"N    Longitude: 84-19'50"W
Elevation:  284   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   8.5
Lake Area:       7 Watershed Area:    127 WA/LA:     17.4 Hydro Type: RESERVOIR
Residence Time:  0.53  Secchi Depth:  1.6   Turbidity:   6.7      Color:   60
Closed pH: 6.76        Equil. pH: 7.85              ANC:  382.0        DOC:  2.20
Closed DIC:  6.01   Equil. DIC:  4.45   Meas. Cond:  54.1   Cal. Cond:  50.3
Ca:  168.2          Mg:  100.4        Na:   135.7        K:  48.3       NH4:  3.9
SO4:   45.0       HCO3:  316.8        Cl:   81.8       NO3:   2.2         F:  2.9
Sum Cations:  456.6  Sum Anions:  449.3  Cations/Anions: 1.02   Tot. P:   5.0
Tot. Al:   31.0    Ext. Al:    1.0    Fe:   270.0      Mn:   340.0    SiO2:  9.73
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A3-064   Name: (NO NAME)                              State: GA  Date: 27NOV84
Sample Type: REGULAR              Latitude: 34-04'08"N    Longitude: 83-31'15"W
Elevation:  235   Surface Temp: 10.0  Stratified: MIXED      Site Depth:   8.8
Lake Area:       5 Watershed Area:     104 WA/LA:     21.2 Hydro Type: RESERVOIR
Residence Time:  0.46  Secchi Depth:  3.0   Turbidity:   2.8       Color:    55
Closed pH: 6.50        Equil. pH: 7.71               ANC:  256.5         DOC:  3.10
Closed DIC:  5.24   Equil. DIC:  3.24    Meas. Cond:  32.5   Cal. Cond:  31.4
Ca:   75.8           Mg:   74.9          Na:   76.1          K:  37.8        NH4: 20.8
SO4:    12.1       HCO3:  231.3        Cl:   43.4        NO3:    0.4           F:   1.9
Sum Cations:  285.6  Sum Anions:  289.4  Cations/Anions: 0.99   Tot. P:   7.0
Tot. Al:     9.0    Ext. Al:   0.0    Fe:    90.0     Mn:  340.0    SiO2: 10.31

ID: 3A3-065   Name: FOREST LAKE                            State: NC  Date: 25NOV84
Sample Type: REGULAR              Latitude: 35-21'51"N    Longitude: 81-52'45"W
Elevation:  277   Surface Temp:  8.1  Stratified: MIXED      Site Depth:   7.0
Lake Area:       9 Watershed Area:     256 WA/LA:     29.4 Hydro Type: RESERVOIR
Residence Time:  0.21  Secchi Depth:  1.4   Turbidity:  12.8       Color:    70
Closed pH: 6.86        Equil. pH: 7.72               ANC:  260.8         DOC:  1.90
Closed DIC:  3.92   Equil. DIC:  3.81    Meas. Cond:  38.9   Cal. Cond:  41.0
Ca:  110.8           Mg:   83.1          Na:   93.1          K:  43.5        NH4: 13.4
SO4:    36.2       HCO3:  284.8        Cl:   64.3        NO3:    6.9           F:   2.2
Sum Cations:  343.9  Sum Anions:  394.9  Cations/Anions: 0.87   Tot. P:   3.0
Tot. Al:  185.0    Ext. Al:   3.0    Fe:   320.0     Mn:  170.0    SiO2:  9.30

ID: 3A3-066   Name: LAKE TAHOMA                            State: NC  Date: 21NOV84
Sample Type: REGULAR              Latitude: 35-43'30"N    Longitude: 82-05'00"W
Elevation:  427   Surface Temp: 10.0  Stratified: MIXED      Site Depth:  13.1
Lake Area:      64 Watershed Area:    5944 WA/LA:     92.9 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  2.9   Turbidity:   1.5       Color:    25
Closed pH: 6.74        Equil. pH: 7.48               ANC:  148.7         DOC:  1.20
Closed DIC:  2.76   Equil. DIC:  1.79    Meas. Cond:  21.0   Cal. Cond:  22.2
Ca:   76.8           Mg:   40.3          Na:   58.7          K:  29.4        NH4:  0.2
SO4:    32.3       HCO3:  137.2        Cl:   20.9        NO3:    0.0           F:   1.2
Sum Cations:  205.6  Sum Anions:  191.7  Cations/Anions: 1.07   Tot. P:   9.0
Tot. Al:   22.0    Ext. Al:   2.0    Fe:     0.0     Mn:   70.0    SiO2:  7.97

ID: 3A3-068   Name: FREEMAN LAKE                           State: GA  Date: 26NOV84
Sample Type: REGULAR              Latitude: 33-55'10"N    Longitude: 84-08'37"W
Elevation:  265   Surface Temp:  8.1  Stratified: MIXED      Site Depth:   1.5
Lake Area:      22 Watershed Area:    2238 WA/LA:    104.1 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  0.5   Turbidity:  28.0       Color:    80
Closed pH: 7.29        Equil. pH: 7.93               ANC:  427.6         DOC:  3.05
Closed DIC:  5.27   Equil. DIC:  4.89    Meas. Cond:  69.6   Cal. Cond:  69.6
Ca:  281.7           Mg:  155.1          Na:  119.4          K:  62.9        NH4:  1.3
SO4:   129.6       HCO3:  383.6        Cl:   71.2        NO3:   10.1           F:   4.1
Sum Cations:  620.4  Sum Anions:  599.7  Cations/Anions: 1.03   Tot. P:   6.5
Tot. Al:  548.0    Ext. Al:   1.0    Fe:   115.0     Mn:   35.0    SiO2:  5.20

ID: 3A3-070   Name: LAKE HOUSER                            State: NC  Date: 25NOV84
Sample Type: REGULAR              Latitude: 35-13'23"N    Longitude: 81-43'45"W
Elevation:  232   Surface Temp: 10.0  Stratified: MIXED      Site Depth:  12.8
Lake Area:       9 Watershed Area:     285 WA/LA:     30.6 Hydro Type: DRAINAGE
Residence Time:  0.48  Secchi Depth:  1.9   Turbidity:   7.6       Color:    40
Closed pH: 6.68        Equil. pH: 7.60               ANC:  185.3         DOC:  2.20
Closed DIC:  3.20   Equil. DIC:  2.45    Meas. Cond:  34.3   Cal. Cond:  36.0
Ca:   91.8           Mg:   75.7          Na:   91.8          K:  42.2        NH4:  1.8
SO4:    41.8       HCO3:  200.2        Cl:   81.5        NO3:    2.1           F:   0.1
Sum Cations:  303.4  Sum Anions:  325.9  Cations/Anions: 0.93   Tot. P:  13.0
Tot. Al:  186.0    Ext. Al:   3.0    Fe:    90.0     Mn:   90.0    SiO2:  6.42
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A3-072   Name: LAKE WILLIAM C. BOWEN           State: SC  Date: 25NOV84
Sample Type: REGULAR            Latitude: 35-06'30"N    Longitude: 82'03'00"W
Elevation:  242   Surface Temp: 11.4  Stratified: MIXED     Site Depth:  10.4
Lake Area:     591 Watershed Area:  20974 WA/LA:     35.5 Hydro Type: RESERVOIR
Residence Time:  0.26  Secchi Depth:  1.3   Turbidity:   9.5      Color:   45
Closed pH: 6.93        Equil. pH: 7.78             ANC:  288.1         DOC:  2.00
Closed DIC:  4.18   Equil. DIC:  3.91   Meas. Cond:  39.2   Cal. Cond:  41.1
Ca:  111.3          Mg:   87.2       Na:  104.8          K:  30.2       NH4: 13.3
SO4:   27.9        HCO3:  322.3      Cl:   59.5        NO3:   1.9          F:  2.0
Sum Cations:  346.8  Sum Anions:  414.2  Cations/Anions: 0.84   Tot. P:   3.0
Tot. Al:  137.0    Ext. Al:    3.0    Fe:  290.0      Mn:  290.0     SiO2: 11.71

ID: 3A3-073   Name: (NO NAME)                       State: GA  Date: 26NOV84
Sample Type: REGULAR            Latitude: 33-41'00"N    Longitude: 84-02'45"W
Elevation:  265   Surface Temp:  9.2  Stratified: MIXED     Site Depth:   3.4
Lake Area:       6 Watershed Area:     109 WA/LA:     18.5 Hydro Type: RESERVOIR
Residence Time:  0.20  Secchi Depth:  1.5   Turbidity:   3.2      Color:   25
Closed pH: 7.09        Equil. pH: 7.60             ANC:  198.3         DOC:  4.90
Closed DIC:  2.49   Equil. DIC:  2.12   Meas. Cond:  58.1   Cal. Cond:  61.7
Ca:  269.5          Mg:   76.5       Na:  139.6          K:  49.9       NH4:  0.8
SO4:  211.3        HCO3:  167.5      Cl:   81.2        NO3:   0.6          F:  4.9
Sum Cations:  536.4  Sum Anions:  465.9  Cations/Anions: 1.15   Tot. P:  10.0
Tot. Al:  136.0    Ext. Al:    4.0    Fe:  100.0      Mn:  130.0     SiO2:  0.59

ID: 3A3-074   Name: BOYD MILLPOND                   State: SC  Date: 29NOV84
Sample Type: REGULAR            Latitude: 34-27'30"N    Longitude: 82-12'30"W
Elevation:  163   Surface Temp:  8.3  Stratified: MIXED     Site Depth:  10.0
Lake Area:      76 Watershed Area:  57899 WA/LA:    762.8 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  0.9   Turbidity:   5.9      Color:   60
Closed pH: 7.39        Equil. pH: 8.29             ANC:  906.6         DOC:  4.60
Closed DIC: 11.34   Equil. DIC: 11.22   Meas. Cond: 237.4   Cal. Cond: 237.7
Ca:  266.5          Mg:  106.9       Na: 1523.4          K: 117.1       NH4: 15.0
SO4:  280.7        HCO3:  867.8      Cl:  751.2        NO3: 153.3          F:  9.7
Sum Cations: 2028.9  Sum Anions: 2067.1  Cations/Anions: 0.98   Tot. P: 833.0
Tot. Al:  149.0    Ext. Al:    1.0    Fe:  270.0      Mn:   50.0     SiO2: 15.44

ID: 3A3-078   Name: WALKER LAKE                     State: GA  Date: 26NOV84
Sample Type: REGULAR            Latitude: 33-39'52"N    Longitude: 84-02'30"W
Elevation:  259   Surface Temp:  9.4  Stratified: MIXED     Site Depth:   5.5
Lake Area:       5 Watershed Area:     184 WA/LA:     36.8 Hydro Type: RESERVOIR
Residence Time:  0.17  Secchi Depth:  2.7   Turbidity:   3.3      Color:   35
Closed pH: 7.38        Equil. pH: 7.86             ANC:  353.0         DOC:  4.40
Closed DIC:  4.19   Equil. DIC:  4.28   Meas. Cond:  90.1   Cal. Cond:  91.8
Ca:  310.9          Mg:  108.6       Na:  278.0          K:  77.0       NH4: 12.4
SO4:  203.4        HCO3:  318.1      Cl:  202.0        NO3:   8.7          F:  9.4
Sum Cations:  786.8  Sum Anions:  742.3  Cations/Anions: 1.06   Tot. P:  19.0
Tot. Al:   88.0    Ext. Al:    2.0    Fe:  170.0      Mn:  100.0     SiO2:  7.52

ID: 3A3-082   Name: (NO NAME)                       State: SC  Date: 29NOV84
Sample Type: REGULAR            Latitude: 34-32'00"N    Longitude: 82-23'00"W
Elevation:  195   Surface Temp: 10.1  Stratified: MIXED     Site Depth:   1.8
Lake Area:      65 Watershed Area: 125462 WA/LA:   1939.1 Hydro Type: RESERVOIR
Residence Time:  0.00  Secchi Depth:  0.3   Turbidity:  24.0      Color:   90
Closed pH: 6.95        Equil. pH: 7.77             ANC:  258.1         DOC:  2.20
Closed DIC:  3.76   Equil. DIC:  2.93   Meas. Cond:  41.5   Cal. Cond:  41.6
Ca:  119.8          Mg:   58.4       Na:  148.3          K:  40.7       NH4:  0.2
SO4:   45.2        HCO3:  236.3      Cl:   68.5        NO3:  20.1          F:  2.3
Sum Cations:  367.4  Sum Anions:  372.8  Cations/Anions: 0.99   Tot. P:  26.0
Tot. Al:  558.0    Ext. Al:    3.0    Fe:  110.0      Mn:   50.0     SiO2: 14.83
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A3-084   Name: (NO NAME)                          State: SC  Date: 25NOV84
Sample Type: REGULAR              Latitude: 35-05'42"N    Longitude: 81-44'20"W
Elevation:  212   Surface Temp:  6.3  Stratified: MIXED      Site Depth:    4.3
Lake Area:       17 Watershed Area:    1000 WA/LA:     59.2 Hydro Type: RESERVOIR
Residence Time:  0.09  Secchi Depth:  0.9  Turbidity:  11.8      Color:    60
Closed pH: 6.90        Equil. pH: 7.70             ANC:  250.4         DOC:  1.00
Closed DIC:  3.69   Equil. DIC:  2.95    Meas. Cond:  35.2   Cal. Cond:  36.9
Ca:  101.3          Mg:    99.5        Na:    77.9         K:  32.2       NH4:   4.5
SO4:   32.5       HCO3:  263.8        Cl:    54.7       NO3:    4.4          F:   1.8
Sum Cations:  315.5  Sum Anions:  357.6  Cations/Anions: 0.88   Tot. P:    7.0
Tot. Al:  188.0    Ext. Al:    3.0    Fe:   180.0      Mn:    20.0    SiO2: 12.82

ID: 3A3-086   Name: (NO NAME)                          State: GA  Date: 27NOV84
Sample Type: REGULAR              Latitude: 33-59'14"N    Longitude: 83-40'50"W
Elevation:  259   Surface Temp:  9.5  Stratified: MIXED      Site Depth:    1.8
Lake Area:        4 Watershed Area:     168 WA/LA:     44.2 Hydro Type: RESERVOIR
Residence Time:  0.05  Secchi Depth:  1.8  Turbidity:   0.9      Color:    20
Closed pH: 7.85        Equil. pH: 7.63             ANC:  211.9         DOC:  3.70
Closed DIC:  2.13   Equil. DIC:  2.60    Meas. Cond:  33.6   Cal. Cond:  33.9
Ca:   67.9          Mg:    53.5        Na:   166.2         K:  22.5       NH4:   0.5
SO4:   13.1       HCO3:  202.0        Cl:    86.6       NO3:    2.7          F:   2.4
Sum Cations:  310.6  Sum Anions:  307.2  Cations/Anions: 1.01   Tot. P:   11.0
Tot. Al:   34.0    Ext. Al:    1.0    Fe:    50.0      Mn:     0.0    SiO2:  8.58

ID: 3A3-087   Name: CLAYTOR LAKE                       State: VA  Date: 21NOV84
Sample Type: REGULAR              Latitude: 37-03'45"N    Longitude: 80'36'30"W
Elevation:  563   Surface Temp: 12.4  Stratified: MIXED      Site Depth:   35.0
Lake Area:  21091 Watershed Area: 551300 WA/LA:     26.1 Hydro Type: RESERVOIR
Residence Time:  1.56  Secchi Depth:  2.3  Turbidity:   2.0      Color:    20
Closed pH: 7.28        Equil. pH: 8.19             ANC:  789.0         DOC:  1.90
Closed DIC: 10.80   Equil. DIC:  9.10    Meas. Cond: 107.8   Cal. Cond: 116.1
Ca:  457.1          Mg:   352.9        Na:   164.9         K:  44.2       NH4:  43.8
SO4:  141.8       HCO3:  777.2        Cl:    98.2       NO3:   22.5          F:   3.5
Sum Cations: 1062.9  Sum Anions: 1046.6  Cations/Anions: 1.02   Tot. P:    0.0
Tot. Al:   36.0    Ext. Al:    1.0    Fe:    20.0      Mn:    40.0    SiO2:  7.48

ID: 3A3-089   Name: (NO NAME)                          State: GA  Date: 26NOV84
Sample Type: REGULAR              Latitude: 34-15'50"N    Longitude: 84-09'45"W
Elevation:  344   Surface Temp:  7.4  Stratified: MIXED      Site Depth:    2.4
Lake Area:        5 Watershed Area:     404 WA/LA:     77.7 Hydro Type: RESERVOIR
Residence Time:  0.03  Secchi Depth:  1.3  Turbidity:   1.9      Color:    25
Closed pH: 7.47        Equil. pH: 7.94             ANC:  449.9         DOC:  3.70
Closed DIC:  5.23   Equil. DIC:  5.20    Meas. Cond:  58.5   Cal. Cond:  59.1
Ca:  254.0          Mg:   132.4        Na:   133.1         K:  57.0       NH4:   1.3
SO4:   18.3       HCO3:  393.3        Cl:    70.2       NO3:   21.1          F:   2.0
Sum Cations:  577.9  Sum Anions:  505.7  Cations/Anions: 1.14   Tot. P:   17.0
Tot. Al:  247.0    Ext. Al:    3.0    Fe:   140.0      Mn:   130.0    SiO2: 15.14

ID: 3A3-092   Name: SMITH MTN LAKE                     State: VA  Date: 21NOV84
Sample Type: REGULAR              Latitude: 37-02'30"N    Longitude: 79-35'00"W
Elevation:  242   Surface Temp: 13.8  Stratified: MIXED      Site Depth:   56.4
Lake Area:   6867 Watershed Area: 263675 WA/LA:     38.4 Hydro Type: RESERVOIR
Residence Time:  2.51  Secchi Depth:  3.2  Turbidity:   1.2      Color:    10
Closed pH: 7.50        Equil. pH: 8.37             ANC: 1245.1         DOC:  1.60
Closed DIC: 16.67   Equil. DIC: 14.24    Meas. Cond: 179.5   Cal. Cond: 179.0
Ca:  789.9          Mg:   361.1        Na:   282.3         K:  59.3       NH4:   5.8
SO4:  228.6       HCO3: 1264.0        Cl:   224.6       NO3:   16.6          F:   6.8
Sum Cations: 1498.5  Sum Anions: 1750.8  Cations/Anions: 0.86   Tot. P:    4.0
Tot. Al:   40.0    Ext. Al:    1.0    Fe:     0.0      Mn:     0.0    SiO2:  6.54
```

(continued)

TABLE 3-1 (continued)

```
ID: 3A3-095   Name: LAKE SIDNEY LANIER                State: GA  Date: 26NOV84
Sample Type: REGULAR           Latitude: 34-11'30"N    Longitude: 84-00'00"W
Elevation:  326   Surface Temp: 14.3  Stratified: WEAK       Site Depth:  47.5
Lake Area:  13727 Watershed Area: 282913 WA/LA:    20.6 Hydro Type: RESERVOIR
Residence Time:  2.49  Secchi Depth:  3.6  Turbidity:  10.2      Color:   70
Closed pH: 6.84        Equil. pH: 7.55             ANC:  180.5         DOC:  1.00
Closed DIC:  2.82  Equil. DIC:  2.22   Meas. Cond:  30.0   Cal. Cond:  32.1
Ca:  110.3            Mg:   69.9       Na:   81.8       K:  33.2       NH4:  4.1
SO4:   42.9       HCO3:  169.4       Cl:   48.5      NO3:   3.0          F:  1.8
Sum Cations:  299.4  Sum Anions:  265.8  Cations/Anions: 1.13   Tot. P:   6.0
Tot. Al:   28.0   Ext. Al:   1.0    Fe:   30.0     Mn:   30.0    SiO2:  5.04

ID: 3A3-099   Name: (NO NAME)                         State: GA  Date: 26NOV84
Sample Type: REGULAR           Latitude: 34-11'47"N    Longitude: 84-18'54"W
Elevation:  308   Surface Temp:  7.5  Stratified: MIXED      Site Depth:   2.1
Lake Area:       10 Watershed Area:    1246 WA/LA:   123.4 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  1.2  Turbidity:   1.3      Color:   20
Closed pH: 7.48        Equil. pH: 7.88             ANC:  396.0         DOC:  2.00
Closed DIC:  4.68  Equil. DIC:  5.32   Meas. Cond:  52.4   Cal. Cond:  54.3
Ca:  211.1            Mg:  116.0       Na:  135.3       K:  51.4       NH4:  0.8
SO4:   23.3       HCO3:  377.2       Cl:   61.8      NO3:  20.5          F:  1.9
Sum Cations:  514.6  Sum Anions:  485.6  Cations/Anions: 1.06   Tot. P:  19.0
Tot. Al:  171.0   Ext. Al:   2.0    Fe:  180.0     Mn:   40.0    SiO2: 11.49

ID: 3B1-007   Name: (NO NAME)                         State: FL  Date: 09DEC84
Sample Type: REGULAR           Latitude: 28-29'22"N    Longitude: 81-35'24"W
Elevation:   32   Surface Temp: 16.7  Stratified: MIXED      Site Depth:   2.4
Lake Area:        6 Watershed Area:      36 WA/LA:     6.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.7  Turbidity:   5.2      Color:   45
Closed pH: 8.00        Equil. pH: 8.47             ANC: 1649.1         DOC:  6.50
Closed DIC: 20.49  Equil. DIC: 20.42   Meas. Cond: 543.0   Cal. Cond: 666.9
Ca: 1773.9            Mg: 2447.2       Na:  517.6       K: 638.7       NH4: 18.5
SO4: 2477.6       HCO3: 1657.0       Cl: 1060.7      NO3:  36.1          F: 15.8
Sum Cations: 5396.0  Sum Anions: 5263.5  Cations/Anions: 1.03   Tot. P:  30.0
Tot. Al:   28.0   Ext. Al:  11.0    Fe:    1.0     Mn:   61.0    SiO2:  1.45

ID: 3B1-008   Name: LAKE BLANCHE                      State: FL  Date: 08DEC84
Sample Type: REGULAR           Latitude: 28-28'48"N    Longitude: 81-31'00"W
Elevation:   30   Surface Temp: 18.2  Stratified: MIXED      Site Depth:   8.5
Lake Area:       49 Watershed Area:     290 WA/LA:     6.0 Hydro Type: DRAINAGE
Residence Time:  1.56  Secchi Depth:  2.4  Turbidity:   0.6      Color:   40
Closed pH: 6.81        Equil. pH: 7.26             ANC:  162.0         DOC:  7.69
Closed DIC:  2.22  Equil. DIC:  1.78   Meas. Cond: 189.0   Cal. Cond: 218.8
Ca:  476.4            Mg:  676.2       Na:  285.4       K: 210.7       NH4:  3.2
SO4:  974.4       HCO3:  121.7       Cl:  533.2      NO3:   5.0          F:  3.3
Sum Cations: 1652.0  Sum Anions: 1637.7  Cations/Anions: 1.01   Tot. P:  10.0
Tot. Al:   41.0   Ext. Al:   5.0    Fe:    5.0     Mn:    3.0    SiO2:  0.37

ID: 3B1-010   Name: SQUARE LAKE                       State: FL  Date: 08DEC84
Sample Type: REGULAR           Latitude: 28-25'31"N    Longitude: 81-42'03"W
Elevation:   33   Surface Temp: 16.0  Stratified: MIXED      Site Depth:   3.0
Lake Area:        8 Watershed Area:     461 WA/LA:    60.7 Hydro Type: DRAINAGE
Residence Time:  0.16  Secchi Depth:  1.1  Turbidity:   1.1      Color:  150
Closed pH: 6.96        Equil. pH: 7.94             ANC:  305.3         DOC: 19.92
Closed DIC:  3.48  Equil. DIC:  2.62   Meas. Cond: 150.0   Cal. Cond: 154.6
Ca:  447.2            Mg:  489.8       Na:  320.2       K: 132.0       NH4:  2.1
SO4:  322.7       HCO3:  179.7       Cl:  541.6      NO3:  11.0          F:  3.7
Sum Cations: 1391.3  Sum Anions: 1058.9  Cations/Anions: 1.31   Tot. P:  15.0
Tot. Al:   48.0   Ext. Al:   6.0    Fe:  146.0     Mn:    4.0    SiO2:  6.53
```

(continued)

TABLE 3-1 (continued)

```
ID: 381-013   Name: OSAGE LAKE                          State: FL  Date: 08DEC84
Sample Type: REGULAR             Latitude: 28-21'05"N    Longitude: 81-38'11"W
Elevation:   33   Surface Temp: 16.4  Stratified: MIXED      Site Depth:   2.1
Lake Area:       9 Watershed Area:     31 WA/LA:      3.4 Hydro Type: DRAINAGE
Residence Time:  0.52  Secchi Depth:  1.9  Turbidity:   1.3     Color:    50
Closed pH: 5.38        Equil. pH: 5.59              ANC:   -1.1         DOC:  6.78
Closed DIC:  0.92   Equil. DIC:  0.54    Meas. Cond:  48.7   Cal. Cond:  49.6
Ca:   88.5          Mg:   99.3        Na:  174.9        K:  18.8       NH4:  2.5
SO4:  151.4       HCO3:    4.5        Cl:  194.4      NO3:   2.0         F:  2.9
Sum Cations:  387.7  Sum Anions:  355.1  Cations/Anions: 1.09   Tot. P:  17.0
Tot. Al:   77.0    Ext. Al:  29.0     Fe:   32.0      Mn:    15.0     SiO2:  0.10

ID: 381-022   Name: OPEN LAKE                           State: FL  Date: 14DEC84
Sample Type: REGULAR             Latitude: 30-29'10"N    Longitude: 85-42'40"W
Elevation:   26   Surface Temp: 16.5  Stratified: MIXED      Site Depth:   7.6
Lake Area:      65 Watershed Area:    218 WA/LA:      3.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.2  Turbidity:   1.7     Color:     5
Closed pH: 5.03        Equil. pH: 4.96              ANC:  -21.0         DOC:  0.48
Closed DIC:  0.20   Equil. DIC:  0.18    Meas. Cond:  14.9   Cal. Cond:  16.2
Ca:   14.9          Mg:   22.0        Na:   52.2        K:   2.9       NH4:  0.2
SO4:   37.9       HCO3:    0.7        Cl:   59.8      NO3:   0.3         F:  0.3
Sum Cations:  102.7  Sum Anions:   99.0  Cations/Anions: 1.04   Tot. P:   2.0
Tot. Al:   46.0    Ext. Al:   5.0     Fe:    8.0      Mn:     3.0     SiO2:  1.16

ID: 381-025   Name: SPARKLEBERRY LAKE                   State: FL  Date: 14DEC84
Sample Type: REGULAR             Latitude: 30-27'40"N    Longitude: 85-31'03"W
Elevation:   15   Surface Temp: 16.2  Stratified: MIXED      Site Depth:   0.9
Lake Area:      12 Watershed Area:    137 WA/LA:     11.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.9  Turbidity:   0.2     Color:     5
Closed pH: 5.64        Equil. pH: 5.71              ANC:  -11.2         DOC:  3.44
Closed DIC:  0.35   Equil. DIC:  0.22    Meas. Cond:  10.9   Cal. Cond:  10.8
Ca:   19.4          Mg:   18.1        Na:   47.3        K:   5.1       NH4:  0.3
SO4:   15.0       HCO3:    4.2        Cl:   49.9      NO3:   0.2         F:  0.3
Sum Cations:   92.0  Sum Anions:   69.7  Cations/Anions: 1.32   Tot. P:   1.0
Tot. Al:   26.0    Ext. Al:   0.0     Fe:    8.0      Mn:    26.0     SiO2:  0.41

ID: 381-027   Name: STEVENS LAKE                        State: FL  Date: 11DEC84
Sample Type: REGULAR             Latitude: 29-53'30"N    Longitude: 82-00'35"W
Elevation:   47   Surface Temp: 15.2  Stratified: MIXED      Site Depth:   9.8
Lake Area:      92 Watershed Area:    570 WA/LA:      6.2 Hydro Type: DRAINAGE
Residence Time:  1.80  Secchi Depth:  2.6  Turbidity:   1.3     Color:    20
Closed pH: 4.81        Equil. pH: 4.75              ANC:  -23.1         DOC:  0.94
Closed DIC:  0.22   Equil. DIC:  0.20    Meas. Cond:  29.9   Cal. Cond:  31.0
Ca:   25.2          Mg:   42.9        Na:  105.7        K:   2.6       NH4:  0.8
SO4:   82.2       HCO3:    0.3        Cl:  112.3      NO3:   1.8         F:  0.4
Sum Cations:  195.4  Sum Anions:  197.1  Cations/Anions: 0.99   Tot. P:   4.0
Tot. Al:  116.0    Ext. Al:  54.0     Fe:   19.0      Mn:     5.0     SiO2:  1.34

ID: 381-029   Name: (NO NAME)                           State: FL  Date: 13DEC84
Sample Type: REGULAR             Latitude: 29-46'10"N    Longitude: 81-56'45"W
Elevation:   26   Surface Temp: 14.9  Stratified: MIXED      Site Depth:   0.9
Lake Area:     131 Watershed Area:    697 WA/LA:      5.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.7  Turbidity:   0.6     Color:    65
Closed pH: 5.44        Equil. pH: 5.65              ANC:    1.6         DOC:  9.04
Closed DIC:  1.02   Equil. DIC:  0.52    Meas. Cond:  38.7   Cal. Cond:  37.0
Ca:   54.6          Mg:   43.9        Na:   85.6        K:   9.5       NH4: 90.4
SO4:   84.9       HCO3:    4.8        Cl:  154.0      NO3:   0.9         F:  0.9
Sum Cations:  286.6  Sum Anions:  245.6  Cations/Anions: 1.17   Tot. P:  12.0
Tot. Al:  135.0    Ext. Al:  14.0     Fe:  160.0      Mn:    51.0     SiO2:  0.04
```

(continued)

TABLE 3-1 (continued)

```
ID: 381-032   Name: CHIPCO LAKE                           State: FL  Date: 11DEC84
Sample Type: REGULAR             Latitude: 29-37'42"N   Longitude: 81-53'31"W
Elevation:   26   Surface Temp: 16.0  Stratified: MIXED      Site Depth:   8.2
Lake Area:      19 Watershed Area:      67 WA/LA:      3.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.8  Turbidity:   0.8      Color:   10
Closed pH: 5.90        Equil. pH: 5.97               ANC:   -9.0         DOC:  1.32
Closed DIC:  0.35   Equil. DIC:  0.33    Meas. Cond:  51.2   Cal. Cond:  52.8
Ca:   88.3          Mg:    76.6       Na:  218.4          K:  18.2        NH4:   0.2
SO4:  189.7       HCO3:     4.0       Cl:  196.6        NO3:   0.6           F:   0.6
Sum Cations:  404.0  Sum Anions:  391.5  Cations/Anions: 1.03   Tot. P:   7.0
Tot. Al:   31.0    Ext. Al:   0.0     Fe:    3.0       Mn:    1.0    SiO2:  0.22

ID: 381-033   Name: (NO NAME)                             State: FL  Date: 10DEC84
Sample Type: REGULAR             Latitude: 29-37'17"N   Longitude: 81-54'38"W
Elevation:   35   Surface Temp: 14.2  Stratified: MIXED      Site Depth:   3.0
Lake Area:       6 Watershed Area:      28 WA/LA:      5.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.3  Turbidity:   1.5      Color:   20
Closed pH: 7.36        Equil. pH: 7.43               ANC:  237.4         DOC:  3.70
Closed DIC:  3.04   Equil. DIC:  2.84    Meas. Cond:  41.1   Cal. Cond:  42.1
Ca:  211.2          Mg:    80.8       Na:  110.9          K:   0.6        NH4:   0.7
SO4:    9.3       HCO3:  221.7       Cl:  115.7        NO3:   0.0           F:   1.4
Sum Cations:  404.3  Sum Anions:  348.8  Cations/Anions: 1.16   Tot. P:  22.0
Tot. Al:   14.0    Ext. Al:   0.0     Fe:   42.0       Mn:    1.0    SiO2:  0.47

ID: 381-036   Name: CROOKED LAKE                          State: FL  Date: 09DEC84
Sample Type: REGULAR             Latitude: 29-09'10"N   Longitude: 81-36'10"W
Elevation:   14   Surface Temp: 15.5  Stratified: MIXED      Site Depth:   5.0
Lake Area:      17 Watershed Area:      44 WA/LA:      2.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.5  Turbidity:   0.5      Color:    5
Closed pH: 4.78        Equil. pH: 4.78               ANC:  -28.4         DOC:  1.35
Closed DIC:  0.60   Equil. DIC:  0.43    Meas. Cond:  34.6   Cal. Cond:  36.1
Ca:   41.4          Mg:    46.3       Na:  129.2          K:   0.9        NH4:   1.3
SO4:   76.4       HCO3:     0.6       Cl:  145.0        NO3:   0.3           F:   2.7
Sum Cations:  239.6  Sum Anions:  225.0  Cations/Anions: 1.06   Tot. P:   7.0
Tot. Al:   67.0    Ext. Al:  36.0     Fe:    8.0       Mn:   17.0    SiO2:  0.08

ID: 381-039   Name: (NO NAME)                             State: FL  Date: 10DEC84
Sample Type: REGULAR             Latitude: 29-07'06"N   Longitude: 81-52'45"W
Elevation:   21   Surface Temp: 16.0  Stratified: MIXED      Site Depth:   3.4
Lake Area:       5 Watershed Area:      16 WA/LA:      3.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.6  Turbidity:   1.0      Color:   35
Closed pH: 7.61        Equil. pH: 8.53               ANC: 2249.1         DOC:  8.10
Closed DIC: 27.28   Equil. DIC: 27.77    Meas. Cond: 252.0   Cal. Cond: 274.5
Ca: 1481.0          Mg:   778.4       Na:  194.0          K: 157.8        NH4:   2.8
SO4:   70.0       HCO3: 2231.3       Cl:  222.0        NO3:   2.9           F:   5.2
Sum Cations: 2614.1  Sum Anions: 2549.8  Cations/Anions: 1.03   Tot. P:  29.0
Tot. Al:   23.0    Ext. Al:   0.0     Fe:   20.0       Mn:    5.0    SiO2:  0.94

ID: 381-041   Name: PECAN LAKE                            State: FL  Date: 10DEC84
Sample Type: REGULAR             Latitude: 29-02'12"N   Longitude: 81-53'38"W
Elevation:   26   Surface Temp: 16.9  Stratified: MIXED      Site Depth:   6.4
Lake Area:      92 Watershed Area:     202 WA/LA:      2.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.5  Turbidity:   0.6      Color:   10
Closed pH: 5.37        Equil. pH: 5.23               ANC:  -14.8         DOC:  1.62
Closed DIC:  0.26   Equil. DIC:  0.29    Meas. Cond:  37.1   Cal. Cond:  38.6
Ca:   30.0          Mg:    76.7       Na:  156.6          K:  12.2        NH4:   0.5
SO4:  118.3       HCO3:     1.2       Cl:  155.2        NO3:   0.0           F:   0.8
Sum Cations:  283.3  Sum Anions:  275.4  Cations/Anions: 1.03   Tot. P:   5.0
Tot. Al:   51.0    Ext. Al:   6.0     Fe:    3.0       Mn:    4.0    SiO2:  0.28
```

(continued)

TABLE 3-1 (continued)

```
ID: 381-044   Name: HOLLY LAKE                          State: FL  Date: 09DEC84
Sample Type: REGULAR             Latitude: 28-56'26"N   Longitude: 81-43'00"W
Elevation:    18  Surface Temp: 16.3  Stratified: MIXED      Site Depth:   5.5
Lake Area:      38 Watershed Area:   1601 WA/LA:    42.7 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  1.9  Turbidity:   0.9     Color:    55
Closed pH: 7.20       Equil. pH: 7.97              ANC:  406.4        DOC: 11.90
Closed DIC:  5.31   Equil. DIC:  4.40    Meas. Cond: 187.0   Cal. Cond: 193.4
Ca:  305.6          Mg:  493.2       Na:  675.1         K: 200.3      NH4:   2.3
SO4:  231.1       HCO3:  341.0       Cl:  866.0       NO3:   0.0        F:   9.0
Sum Cations: 1676.6  Sum Anions: 1448.6  Cations/Anions: 1.16   Tot. P:  12.0
Tot. Al:   16.0    Ext. Al:   0.0    Fe:    51.0     Mn:     1.0    SiO2:  3.25


ID: 381-045   Name: LAKE MARY                           State: FL  Date: 09DEC84
Sample Type: REGULAR             Latitude: 28-55'29"N   Longitude: 81-40'41"W
Elevation:    20  Surface Temp: 16.1  Stratified: MIXED      Site Depth:   3.7
Lake Area:      18 Watershed Area:     34 WA/LA:     1.9 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  0.7  Turbidity:   6.8     Color:    50
Closed pH: 7.59       Equil. pH: 8.30              ANC:  961.5        DOC:  9.85
Closed DIC: 11.70   Equil. DIC: 11.15    Meas. Cond: 330.0   Cal. Cond: 375.3
Ca:  835.8          Mg: 1192.8       Na:  816.5         K: 273.4      NH4:   1.2
SO4: 1070.1       HCO3:  882.6       Cl:  981.7       NO3:   2.7        F:  15.6
Sum Cations: 3119.8  Sum Anions: 2959.1  Cations/Anions: 1.05   Tot. P:  43.0
Tot. Al:   14.0    Ext. Al:   3.0    Fe:     0.0     Mn:     1.0    SiO2:  1.55


ID: 381-050   Name: BIG LAKE                            State: FL  Date: 08DEC84
Sample Type: REGULAR             Latitude: 28-52'07"N   Longitude: 81-27'52"W
Elevation:     7  Surface Temp: 16.6  Stratified: MIXED      Site Depth:   4.3
Lake Area:      54 Watershed Area:    236 WA/LA:     4.3 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  1.3  Turbidity:   1.9     Color:    85
Closed pH: 6.30       Equil. pH: 6.57              ANC:   71.8        DOC: 13.46
Closed DIC:  1.18   Equil. DIC:  0.82    Meas. Cond:  81.0   Cal. Cond:  82.6
Ca:  225.9          Mg:  103.2       Na:  348.9         K:  27.4      NH4:   0.7
SO4:  104.7       HCO3:   27.9       Cl:  426.0       NO3:  19.2        F:   7.9
Sum Cations:  706.6  Sum Anions:  585.8  Cations/Anions: 1.21   Tot. P:  11.0
Tot. Al:   98.0    Ext. Al:  28.0    Fe:    35.0     Mn:     2.0    SiO2:  0.62


ID: 381-051   Name: WILMA LAKE (EAST)                   State: FL  Date: 08DEC84
Sample Type: REGULAR             Latitude: 28-32'21"N   Longitude: 81-43'49"W
Elevation:    26  Surface Temp: 16.9  Stratified: MIXED      Site Depth:   4.0
Lake Area:       7 Watershed Area:    161 WA/LA:    22.7 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  3.4  Turbidity:   0.9     Color:    20
Closed pH: 6.88       Equil. pH: 7.33              ANC:  148.4        DOC:  5.17
Closed DIC:  2.20   Equil. DIC:  1.95    Meas. Cond: 106.5   Cal. Cond: 114.0
Ca:  312.2          Mg:  228.7       Na:  277.5         K:  87.6      NH4:   0.5
SO4:  408.1       HCO3:  127.7       Cl:  318.8       NO3:   0.0        F:   4.4
Sum Cations:  906.6  Sum Anions:  859.0  Cations/Anions: 1.06   Tot. P:  12.0
Tot. Al:   28.0    Ext. Al:   0.0    Fe:     5.0     Mn:     3.0    SiO2:  0.14


ID: 381-052   Name: (NO NAME)                           State: FL  Date: 08DEC84
Sample Type: REGULAR             Latitude: 28-38'19"N   Longitude: 81-52'39"W
Elevation:    27  Surface Temp: 15.1  Stratified: MIXED      Site Depth:   2.1
Lake Area:       6 Watershed Area:     23 WA/LA:     3.6 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  0.4  Turbidity:   7.1     Color:    45
Closed pH: 6.23       Equil. pH: 6.44              ANC:   15.8        DOC:  8.45
Closed DIC:  0.35   Equil. DIC:  0.57    Meas. Cond: 115.4   Cal. Cond: 124.3
Ca:  182.6          Mg:  241.3       Na:  378.9         K: 141.2      NH4:   0.3
SO4:  458.0       HCO3:   11.4       Cl:  440.1       NO3:   0.1        F:   2.5
Sum Cations:  945.5  Sum Anions:  912.1  Cations/Anions: 1.04   Tot. P:  28.0
Tot. Al:  144.0    Ext. Al:  11.0    Fe:    21.0     Mn:    20.0    SiO2:  1.06
```

(continued)

TABLE 3-1 (continued)

```
                                                         State: FL  Date: 13DEC84
ID: 3B1-054   Name: (NO NAME)
Sample Type: REGULAR             Latitude: 29-47'24"N    Longitude: 81-57'34"W
Elevation:   29   Surface Temp: 14.8  Stratified: MIXED      Site Depth:   1.8
Lake Area:      28 Watershed Area:     225 WA/LA:     8.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.0  Turbidity:   2.2      Color:    20
Closed pH: 5.99         Equil. pH: 6.37             ANC:   10.2        DOC:  3.87
Closed DIC:  0.52   Equil. DIC:  0.44    Meas. Cond:  44.6   Cal. Cond:  44.4
Ca:   56.7            Mg:   102.7        Na:   180.0          K:    8.5     NH4:  0.6
SO4:  133.0        HCO3:    13.4        Cl:   189.0       NO3:    0.1       F:  0.9
Sum Cations:  349.1  Sum Anions:  336.5  Cations/Anions: 1.04   Tot. P:  14.0
Tot. Al:   88.0   Ext. Al:   3.0    Fe:     8.0     Mn:     4.0    SiO2:  0.05

                                                         State: FL  Date: 11DEC84
ID: 3B1-055   Name: MARINER LAKE
Sample Type: REGULAR             Latitude: 29-38'45"N    Longitude: 81-53'17"W
Elevation:   26   Surface Temp: 15.7  Stratified: MIXED      Site Depth:   5.5
Lake Area:      54 Watershed Area:     223 WA/LA:     4.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.7  Turbidity:   0.9      Color:    10
Closed pH: 5.03         Equil. pH: 4.93             ANC:  -19.3        DOC:  0.35
Closed DIC:  0.17   Equil. DIC:  0.25    Meas. Cond:  38.2   Cal. Cond:  42.2
Ca:   50.7            Mg:    63.5        Na:   150.1          K:   11.1     NH4:  0.5
SO4:  135.1        HCO3:     0.7        Cl:   165.6       NO3:    0.0       F:  0.6
Sum Cations:  287.1  Sum Anions:  302.0  Cations/Anions: 0.95   Tot. P:   5.0
Tot. Al:   74.0   Ext. Al:  38.0    Fe:     2.0     Mn:    10.0    SiO2:  0.43

                                                         State: FL  Date: 11DEC84
ID: 3B1-057   Name: (NO NAME)
Sample Type: REGULAR             Latitude: 29-00'33"N    Longitude: 81-51'52"W
Elevation:   21   Surface Temp: 15.0  Stratified: MIXED      Site Depth:   3.7
Lake Area:       6 Watershed Area:      34 WA/LA:     5.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.4  Turbidity:   0.6      Color:   225
Closed pH: 4.34         Equil. pH: 4.30             ANC:  -58.7        DOC: 20.18
Closed DIC:  1.09   Equil. DIC:  0.30    Meas. Cond:  42.9   Cal. Cond:  41.5
Ca:   23.4            Mg:    55.3        Na:   137.0          K:    3.9     NH4:  6.5
SO4:   25.4        HCO3:     0.3        Cl:   137.1       NO3:    3.8       F:  0.7
Sum Cations:  274.0  Sum Anions:  167.3  Cations/Anions: 1.64   Tot. P:  32.0
Tot. Al:   96.0   Ext. Al;  23.0    Fe:   146.0     Mn:     4.0    SiO2:  3.64

                                                         State: FL  Date: 09DEC84
ID: 3B1-058   Name: (NO NAME)
Sample Type: REGULAR             Latitude: 28-59'56"N    Longitude: 81-52'35"W
Elevation:   25   Surface Temp: 16.8  Stratified: MIXED      Site Depth:  11.0
Lake Area:       4 Watershed Area:      21 WA/LA:     4.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.6  Turbidity:   0.7      Color:    15
Closed pH: 7.28         Equil. pH: 7.65             ANC:  348.6        DOC:  3.84
Closed DIC:  4.73   Equil. DIC:  4.08    Meas. Cond: 112.5   Cal. Cond: 114.0
Ca:  169.5            Mg:   550.9        Na:   184.9          K:   95.3     NH4:  5.0
SO4:  154.5        HCO3:   329.7        Cl:   386.5       NO3:   19.0       F:  2.7
Sum Cations: 1005.6  Sum Anions:  893.8  Cations/Anions: 1.13   Tot. P:   5.0
Tot. Al:   27.0   Ext. Al:  11.0    Fe:     0.0     Mn:     0.0    SiO2:  0.36

                                                         State: FL  Date: 08DEC84
ID: 3B1-059   Name: (NO NAME)
Sample Type: REGULAR             Latitude: 28-29'04"N    Longitude: 81-34'15"W
Elevation:   30   Surface Temp: 17.8  Stratified: MIXED      Site Depth:   5.8
Lake Area:      16 Watershed Area:      85 WA/LA:     5.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.7  Turbidity:   2.3      Color:    20
Closed pH: 7.95         Equil. pH: 8.64             ANC: 1369.1        DOC:  4.70
Closed DIC: 15.71   Equil. DIC: 15.72    Meas. Cond: 399.0   Cal. Cond: 481.8
Ca: 1228.5            Mg:  1702.8        Na:   324.1          K:  537.5     NH4:  0.4
SO4: 1521.9        HCO3:  1163.7        Cl:  1125.6       NO3:   26.8       F: 14.4
Sum Cations: 3793.3  Sum Anions: 3860.8  Cations/Anions: 0.98   Tot. P:  12.0
Tot. Al:   35.0   Ext. Al:  18.0    Fe:     2.0     Mn:     3.0    SiO2:  0.38
```

(continued)

TABLE 3-1 (continued)

```
ID: 381-061   Name: (NO NAME)                       State: FL  Date: 09DEC84
Sample Type: REGULAR           Latitude: 28-59'04"N   Longitude: 81-45'15"W
Elevation:   18   Surface Temp: 14.5  Stratified: MIXED     Site Depth:   3.0
Lake Area:      26 Watershed Area:    109 WA/LA:      4.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.0   Turbidity:   0.4      Color:   25
Closed pH: 5.76       Equil. pH: 6.30               ANC:   11.4       DOC:  5.19
Closed DIC:  1.20   Equil. DIC:  0.48    Meas. Cond:  37.0   Cal. Cond:  33.8
Ca:   21.9          Mg:  103.7       Na:  164.9          K:   0.5      NH4:   1.7
SO4:   24.8        HCO3:   18.2      Cl:  203.7        NO3:   0.6        F:   0.6
Sum Cations:  293.1  Sum Anions:  247.9  Cations/Anions: 1.18  Tot. P:   5.0
Tot. Al:   18.0    Ext. Al:   0.0    Fe:    18.0     Mn:     5.0   SiO2:  0.34

ID: 381-064   Name: HOMESTEAD POND                  State: FL  Date: 14DEC84
Sample Type: REGULAR           Latitude: 30-31'17"N   Longitude: 85-42'15"W
Elevation:   28   Surface Temp: 16.3  Stratified: MIXED     Site Depth:   9.8
Lake Area:       8 Watershed Area:     31 WA/LA:      4.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  5.5   Turbidity:   0.5      Color:    5
Closed pH: 5.03       Equil. pH: 4.93               ANC:  -20.1       DOC:  0.58
Closed DIC:  0.28   Equil. DIC:  0.17    Meas. Cond:  14.2   Cal. Cond:  15.3
Ca:   11.9          Mg:   23.4       Na:   45.4          K:   2.3      NH4:   0.3
SO4:   36.4        HCO3:    0.7      Cl:   52.8        NO3:   0.3        F:   0.3
Sum Cations:   94.6  Sum Anions:   90.4  Cations/Anions: 1.05  Tot. P:   1.0
Tot. Al:   34.0    Ext. Al:  11.0    Fe:     4.0     Mn:     2.0   SiO2:  0.90

ID: 381-065   Name: (NO NAME)                       State: FL  Date: 09DEC84
Sample Type: REGULAR           Latitude: 28-57'30"N   Longitude: 81-38'48"W
Elevation:   21   Surface Temp: 16.4  Stratified: MIXED     Site Depth:   4.6
Lake Area:      29 Watershed Area:    205 WA/LA:      7.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.2   Turbidity:   0.9      Color:   20
Closed pH: 7.07       Equil. pH: 7.37               ANC:  187.7       DOC:  6.49
Closed DIC:  2.46   Equil. DIC:  2.01    Meas. Cond: 161.0   Cal. Cond: 175.9
Ca:  284.0          Mg:  631.9       Na:  347.1          K: 140.5      NH4:   1.1
SO4:  566.3        HCO3:  156.5      Cl:  583.9        NO3:  10.2        F:   2.9
Sum Cations: 1404.6  Sum Anions: 1320.2  Cations/Anions: 1.06  Tot. P:   9.0
Tot. Al:  200.0    Ext. Al:   9.0    Fe:     1.0     Mn:     0.0   SiO2:  0.18

ID: 381-067   Name: BULLOCK LAKE                    State: FL  Date: 05DEC84
Sample Type: REGULAR           Latitude: 28-18'10"N   Longitude: 81-10'25"W
Elevation:   19   Surface Temp: 21.2  Stratified: MIXED     Site Depth:   2.1
Lake Area:      30 Watershed Area:     93 WA/LA:      3.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.4   Turbidity:   2.3      Color:  300
Closed pH: 4.54       Equil. pH: 4.54               ANC:  -37.3       DOC: 36.91
Closed DIC:  0.73   Equil. DIC:  0.54    Meas. Cond:  81.3   Cal. Cond:  80.1
Ca:  124.3          Mg:  168.6       Na:  328.0          K:  13.4      NH4:   3.5
SO4:   67.7        HCO3:    0.3      Cl:  349.8        NO3:  16.8        F:   1.6
Sum Cations:  674.1  Sum Anions:  436.1  Cations/Anions: 1.55  Tot. P:  14.0
Tot. Al:  310.0    Ext. Al: 133.0    Fe:   874.0     Mn:    17.0   SiO2:  0.14

ID: 381-068   Name: (NO NAME)                       State: FL  Date: 09DEC84
Sample Type: REGULAR           Latitude: 28-29'15"N   Longitude: 81-35'35"W
Elevation:   32   Surface Temp: 17.2  Stratified: MIXED     Site Depth:   6.7
Lake Area:      11 Watershed Area:    150 WA/LA:     14.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.4   Turbidity:   1.9      Color:   40
Closed pH: 7.78       Equil. pH: 8.52               ANC: 1472.8       DOC:  9.01
Closed DIC: 17.32   Equil. DIC: 16.77    Meas. Cond: 497.0   Cal. Cond: 601.9
Ca: 1487.0          Mg: 2210.3       Na:  615.5          K: 578.4      NH4:   1.1
SO4: 2227.7        HCO3: 1345.3      Cl: 1088.9        NO3:   0.0        F:  14.3
Sum Cations: 4892.4  Sum Anions: 4689.7  Cations/Anions: 1.04  Tot. P:  28.0
Tot. Al:   31.0    Ext. Al:   3.0    Fe:     0.0     Mn:     1.0   SiO2:  2.72
```

(continued)

TABLE 3-1 (continued)

```
                                                      State: FL  Date: 11DEC84
ID: 381-069   Name: LAKE ROSA
Sample Type: REGULAR              Latitude: 29-42'42"N   Longitude: 82-00'27"W
Elevation:   30   Surface Temp: 16.7  Stratified: MIXED      Site Depth:  11.3
Lake Area:     43 Watershed Area:    163 WA/LA:     3.8 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  5.8  Turbidity:   0.6     Color:     5
Closed pH: 5.03       Equil. pH: 4.92             ANC:   -22.1         DOC:  0.31
Closed DIC:  0.28   Equil. DIC:  0.22    Meas. Cond:  36.0   Cal. Cond:  39.3
Ca:   48.1            Mg:    56.5       Na:  143.5          K:   8.5      NH4:  0.2
SO4:  128.5        HCO3:     0.6       Cl:  151.2       NO3:   0.4         F:  0.7
Sum Cations:  267.5  Sum Anions:  281.4  Cations/Anions: 0.95   Tot. P:   4.0
Tot. Al:    42.0   Ext. Al:  11.0     Fe:      2.0     Mn:    12.0    SiO2:  0.71

                                                      State: FL  Date: 08DEC84
ID: 381-072   Name: LAKE EMMA
Sample Type: REGULAR              Latitude: 28-36'45"N   Longitude: 81-51'10"W
Elevation:   29   Surface Temp: 16.9  Stratified: MIXED       Site Depth:   6.4
Lake Area:     69 Watershed Area:        * WA/LA:       *  Hydro Type: DRAINAGE
Residence Time:    *    Secchi Depth:  2.5  Turbidity:   0.9      Color:    75
Closed pH: 6.57       Equil. pH: 6.95             ANC:    79.8        DOC: 15.79
Closed DIC:  0.79   Equil. DIC:  0.68    Meas. Cond:  92.9   Cal. Cond:  92.0
Ca:  242.0            Mg:   187.6       Na:  332.8          K:  45.2      NH4:  0.9
SO4:  127.8        HCO3:    32.0       Cl:  462.6       NO3:   3.4         F:  4.6
Sum Cations:  808.7  Sum Anions:  630.5  Cations/Anions: 1.28   Tot. P:  10.0
Tot. Al:    67.0   Ext. Al:   8.0     Fe:  122.0      Mn:     3.0    SiO2:  0.78

                                                      State: FL  Date: 08DEC84
ID: 381-073   Name: LAKE DOYLE
Sample Type: REGULAR              Latitude: 28-51'43"N   Longitude: 81-11'39"W
Elevation:    7   Surface Temp: 16.4  Stratified: MIXED       Site Depth:   2.1
Lake Area:     20 Watershed Area:    109 WA/LA:     5.5 Hydro Type: DRAINAGE
Residence Time:  0.40  Secchi Depth:  2.8  Turbidity:   0.9      Color:    25
Closed pH: 4.57       Equil. pH: 4.57             ANC:   -36.7         DOC:  5.39
Closed DIC:  0.43   Equil. DIC:  0.24    Meas. Cond:  64.8   Cal. Cond:  70.4
Ca:   58.5            Mg:   107.9       Na:  248.4          K:  24.4      NH4:  1.3
SO4:  197.2        HCO3:     0.2       Cl:  274.2       NO3:   0.7         F:  1.1
Sum Cations:  469.4  Sum Anions:  473.4  Cations/Anions: 0.99   Tot. P:   9.0
Tot. Al:    75.0   Ext. Al:  40.0     Fe:     16.0     Mn:     3.0    SiO2:  0.06

                                                      State: FL  Date: 09DEC84
ID: 381-077   Name: SELLERS LAKE
Sample Type: REGULAR              Latitude: 29-06'43"N   Longitude: 81-38'15"W
Elevation:   15   Surface Temp: 16.3  Stratified: MIXED       Site Depth:   7.9
Lake Area:    160 Watershed Area:   1233 WA/LA:     7.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.3  Turbidity:   0.5      Color:     5
Closed pH: 4.66       Equil. pH: 4.64             ANC:   -32.5         DOC:  0.38
Closed DIC:  0.25   Equil. DIC:  0.16    Meas. Cond:  47.3   Cal. Cond:  48.6
Ca:   39.2            Mg:    56.0       Na:  185.3          K:   7.1      NH4:  0.7
SO4:  125.8        HCO3:     0.3       Cl:  187.0       NO3:   1.3         F:  1.2
Sum Cations:  314.0  Sum Anions:  315.6  Cations/Anions: 1.00   Tot. P:   5.0
Tot. Al:   154.0   Ext. Al: 121.0     Fe:      4.0     Mn:    22.0    SiO2:  0.08

                                                      State: FL  Date: 10DEC84
ID: 381-078   Name: ROUND LAKE
Sample Type: REGULAR              Latitude: 29-07'22"N   Longitude: 81-54'18"W
Elevation:   19   Surface Temp: 17.0  Stratified: MIXED       Site Depth:   6.4
Lake Area:     10 Watershed Area:     23 WA/LA:     2.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.5  Turbidity:   0.6      Color:     5
Closed pH: 5.07       Equil. pH: 4.99             ANC:   -19.6         DOC:  1.14
Closed DIC:  0.45   Equil. DIC:  0.22    Meas. Cond:  35.3   Cal. Cond:  37.3
Ca:   27.8            Mg:    52.8       Na:  173.1          K:   2.5      NH4:  0.7
SO4:   93.5        HCO3:     0.9       Cl:  158.3       NO3:   0.1         F:  0.7
Sum Cations:  269.3  Sum Anions:  253.4  Cations/Anions: 1.06   Tot. P:   4.0
Tot. Al:    30.0   Ext. Al:  11.0     Fe:      4.0     Mn:    10.0    SiO2:  0.11
```

(continued)

TABLE 3-1 (continued)

```
ID: 381-079   Name: LAKE GLONA                            State: FL  Date: 08DEC84
Sample Type: REGULAR            Latitude: 28-28'57"N   Longitude: 81-47'22"W
Elevation:   31   Surface Temp: 16.2  Stratified: MIXED     Site Depth:   1.8
Lake Area:      64 Watershed Area:        * WA/LA:        *  Hydro Type: DRAINAGE
Residence Time:    *    Secchi Depth:  1.4  Turbidity:   1.1      Color:  105
Closed pH: 6.56        Equil. pH: 6.68              ANC:   95.5         DOC: 17.65
Closed DIC:  1.18  Equil. DIC:  0.96   Meas. Cond: 103.3  Cal. Cond: 103.5
Ca:  200.3          Mg:  292.5       Na:  288.0          K: 120.7       NH4:  0.9
SO4:  126.6      HCO3:   47.0       Cl:  524.7        NO3:    1.5          F:  3.9
Sum Cations:  902.8 Sum Anions:  703.7  Cations/Anions: 1.28   Tot. P:  14.0
Tot. Al:   85.0    Ext. Al:  12.0    Fe:  144.0       Mn:     3.0    SiO2:  0.29

ID: 381-083   Name: (NO NAME)                             State: FL  Date: 09DEC84
Sample Type: REGULAR            Latitude: 28-58'35"N   Longitude: 81-51'48"W
Elevation:   21   Surface Temp: 15.2  Stratified: MIXED     Site Depth:   2.1
Lake Area:      11 Watershed Area:      54 WA/LA:       4.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.4  Turbidity:  .2.3      Color:   45
Closed pH: 7.18        Equil. pH: 7.91              ANC:  370.0         DOC: 10.95
Closed DIC:  4.66  Equil. DIC:  3.83   Meas. Cond: 141.0  Cal. Cond: 144.5
Ca:  273.8          Mg:  623.0       Na:  235.8          K: 148.1       NH4:  1.4
SO4:  152.0      HCO3:  298.1       Cl:  609.3        NO3:    0.5          F:  6.1
Sum Cations: 1282.1 Sum Anions: 1067.1  Cations/Anions: 1.20   Tot. P:  19.0
Tot. Al:   33.0    Ext. Al:   3.0    Fe:    4.0       Mn:     0.0    SiO2:  0.08

ID: 381-087   Name: BOGGY MARSH                           State: FL  Date: 08DEC84
Sample Type: REGULAR            Latitude: 28-23'15"N   Longitude: 81-42'02"W
Elevation:   36   Surface Temp: 15.3  Stratified: MIXED     Site Depth:   4.7
Lake Area:     114 Watershed Area:     427 WA/LA:       3.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.3  Turbidity:   0.6      Color:  250
Closed pH: 5.09        Equil. pH: 5.39              ANC:   44.0         DOC: 32.56
Closed DIC:  2.50  Equil. DIC:  2.44   Meas. Cond:  77.0  Cal. Cond:  72.7
Ca:  152.8          Mg:  156.8       Na:  294.5          K:  63.2       NH4:  7.4
SO4:   10.9      HCO3:    8.6       Cl:  414.7        NO3:    0.0          F:  3.7
Sum Cations:  681.1 Sum Anions:  437.9  Cations/Anions: 1.56   Tot. P:  11.0
Tot. Al:   69.0    Ext. Al:  15.0    Fe:  918.0       Mn:    48.0    SiO2:  7.48

ID: 381-088   Name: COOK LAKE                             State: FL  Date: 08DEC84
Sample Type: REGULAR            Latitude: 28-35'27"N   Lohgitude: 81-48'30"W
Elevation:   29   Surface Temp: 15.6  Stratified: MIXED     Site Depth:   3.0
Lake Area:       9 Watershed Area:        * WA/LA:        *  Hydro Type: DRAINAGE
Residence Time:    *    Secchi Depth:  1.8  Turbidity:   0.9      Color:  100
Closed pH: 6.18        Equil. pH: 6.83              ANC:   87.8         DOC: 19.03
Closed DIC:  1.71  Equil. DIC:  0.90   Meas. Cond:  95.1  Cal. Cond:  93.5
Ca:  246.3          Mg:  188.5       Na:  355.8          K:  49.6       NH4:  0.9
SO4:  102.4      HCO3:   34.5       Cl:  485.2        NO3:    1.6          F:  4.5
Sum Cations:  841.7 Sum Anions:  628.2  Cations/Anions: 1.34   Tot. P:  16.0
Tot. Al:   94.0    Ext. Al:  19.0    Fe:  171.0       Mn:     7.0    SiO2:  1.90

ID: 381-089   Name: (NO NAME)                             State: FL  Date: 10DEC84
Sample Type: REGULAR            Latitude: 29-36'30"N   Longitude: 81-58'25"W
Elevation:   29   Surface Temp: 15.7  Stratified: MIXED     Site Depth:   6.7
Lake Area:       5 Watershed Area:      28 WA/LA:       5.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.4  Turbidity:   0.8      Color:   10
Closed pH: 5.82        Equil. pH: 6.20              ANC:    7.0         DOC:  1.90
Closed DIC:  0.88  Equil. DIC:  0.32   Meas. Cond:  33.4  Cal. Cond:  33.2
Ca:   54.8          Mg:   48.1       Na:  147.2          K:   9.3       NH4:  1.1
SO4:   99.6      HCO3:   14.2       Cl:  136.1        NO3:    0.7          F:  0.7
Sum Cations:  261.1 Sum Anions:  251.3  Cations/Anions: 1.04   Tot. P:   8.5
Tot. Al:   55.0    Ext. Al:   0.0    Fe:    9.0       Mn:     0.5    SiO2:  0.25
```

(continued)

TABLE 3-1 (continued)

```
ID: 381-090   Name: BLUE POND                          State: FL  Date: 11DEC84
Sample Type: REGULAR            Latitude: 29-52'30"N    Longitude: 82-01'30"W
Elevation:   53   Surface Temp: 15.4  Stratified: MIXED      Site Depth:   7.9
Lake Area:      80 Watershed Area:     438 WA/LA:      5.5 Hydro Type: DRAINAGE
Residence Time:  1.57  Secchi Depth:  2.4   Turbidity:   1.8      Color:    25
Closed pH: 4.41        Equil. pH: 4.38               ANC:  -51.4         DOC:  1.14
Closed DIC:  0.28   Equil. DIC:  0.23    Meas. Cond:  42.6   Cal. Cond:  45.4
Ca:   16.7          Mg:   48.5       Na:   139.6          K:   1.5      NH4:   1.1
SO4:  111.0        HCO3:    0.2       Cl:  149.5        NO3:   1.4         F:   0.5
Sum Cations:  248.2  Sum Anions:  262.5  Cations/Anions: 0.95   Tot. P:   8.0
Tot. Al:    96.0    Ext. Al:  74.0     Fe:    49.0      Mn:    2.0     SiO2:  1.44
```

```
ID: 381-091   Name: LITTLE FISH LAKE                   State: FL  Date: 08DEC84
Sample Type: REGULAR            Latitude: 28-24'05"N    Longitude: 81-30'47"W
Elevation:   30   Surface Temp: 17.2  Stratified: MIXED      Site Depth:   4.3
Lake Area:       9 Watershed Area:       * WA/LA:        * Hydro Type: DRAINAGE
Residence Time:    *    Secchi Depth:  0.6   Turbidity:   1.5      Color:   150
Closed pH: 5.06        Equil. pH: 5.13               ANC:    1.1         DOC: 16.60
Closed DIC:  1.49   Equil. DIC:  0.43    Meas. Cond: 139.0   Cal. Cond: 148.9
Ca:  263.0          Mg:  400.8       Na:   330.6          K: 151.7      NH4:   7.5
SO4:  474.7        HCO3:    1.0       Cl:  536.0        NO3:  18.2         F:   2.1
Sum Cations: 1163.4  Sum Anions: 1032.0  Cations/Anions: 1.13   Tot. P:  17.0
Tot. Al:   220.0    Ext. Al:  89.0     Fe:   198.0      Mn:   13.0     SiO2:  1.84
```

```
ID: 381-093   Name: REEDY LAKE                         State: FL  Date: 08DEC84
Sample Type: REGULAR            Latitude: 28-24'55"N    Longitude: 81-36'48"W
Elevation:   29   Surface Temp: 17.0  Stratified: MIXED      Site Depth:   3.4
Lake Area:      53 Watershed Area:       * WA/LA:        * Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.2   Turbidity:   2.9      Color:   225
Closed pH: 5.68        Equil. pH: 5.61               ANC:   51.3         DOC: 28.88
Closed DIC:  0.69   Equil. DIC:  0.36    Meas. Cond: 110.1   Cal. Cond:  95.5
Ca:  350.7          Mg:  224.4       Na:   379.8          K:  50.5      NH4:   1.4
SO4:  258.2        HCO3:    3.6       Cl:  232.2        NO3:   3.1         F:   2.6
Sum Cations: 1009.8  Sum Anions:  499.7  Cations/Anions: 2.02   Tot. P:  57.0
Tot. Al:   151.0    Ext. Al:  47.0     Fe:   246.0      Mn:   13.0     SiO2:  5.05
```

```
ID: 381-097   Name: CLEAR LAKE                         State: FL  Date: 10DEC84
Sample Type: REGULAR            Latitude: 29-10'42"N    Longitude: 81-52'06"W
Elevation:   16   Surface Temp: 15.9  Stratified: MIXED      Site Depth:   4.3
Lake Area:      16 Watershed Area:      54 WA/LA:      3.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.7   Turbidity:   0.5      Color:    25
Closed pH: 6.35        Equil. pH: 6.92               ANC:   72.7         DOC:  6.04
Closed DIC:  1.77   Equil. DIC:  0.86    Meas. Cond:  47.9   Cal. Cond:  47.7
Ca:  102.5          Mg:  126.9       Na:   177.0          K:   7.5      NH4:   1.6
SO4:  121.8        HCO3:   59.6       Cl:  167.6        NO3:   0.8         F:   1.3
Sum Cations:  415.7  Sum Anions:  351.1  Cations/Anions: 1.18   Tot. P:   4.0
Tot. Al:    21.0    Ext. Al:   0.0     Fe:    10.0      Mn:    1.0     SiO2:  0.07
```

```
ID: 381-098   Name: (NO NAME)                          State: FL  Date: 14DEC84
Sample Type: REGULAR            Latitude: 30-29'32"N    Longitude: 85-48'40"W
Elevation:   13   Surface Temp: 15.5  Stratified: MIXED      Site Depth:   5.0
Lake Area:       6 Watershed Area:      18 WA/LA:      3.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  5.0   Turbidity:   0.3      Color:    10
Closed pH: 6.39        Equil. pH: 6.60               ANC:   27.1         DOC:  3.31
Closed DIC:  0.72   Equil. DIC:  0.50    Meas. Cond:  22.7   Cal. Cond:  22.1
Ca:  105.2          Mg:   25.9       Na:    54.0          K:   1.5      NH4:   0.7
SO4:   64.3        HCO3:   35.4       Cl:   62.9        NO3:   0.2         F:   0.8
Sum Cations:  187.4  Sum Anions:  163.6  Cations/Anions: 1.15   Tot. P:   3.0
Tot. Al:    16.0    Ext. Al:   0.0     Fe:     1.0      Mn:    3.0     SiO2:  0.11
```

(continued)

TABLE 3-1 (continued)

```
ID: 3B1-099   Name: (NO NAME)                          State: FL  Date: 10DEC84
Sample Type: REGULAR            Latitude: 29-37'07"N   Longitude: 81-53'52"W
Elevation:   29   Surface Temp: 14.1  Stratified: MIXED     Site Depth:   3.0
Lake Area:      10 Watershed Area:     26 WA/LA:      2.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.9  Turbidity:   6.2     Color:    10
Closed pH: 6.72       Equil. pH: 6.97              ANC:   70.8        DOC:  2.82
Closed DIC:  1.43   Equil. DIC:  1.15    Meas. Cond:  33.6   Cal. Cond:  33.5
Ca:   92.1           Mg:   85.5        Na:   97.9           K:   8.4     NH4:   1.3
SO4:   53.5        HCO3:   74.5       Cl:  132.9         NO3:   0.2        F:   1.2
Sum Cations:  285.2  Sum Anions:  262.3  Cations/Anions: 1.09   Tot. P:  13.0
Tot. Al:   43.0    Ext. Al:   0.0     Fe:    21.0     Mn:     1.0    SiO2:  0.06

ID: 3B1-105   Name: (NO NAME)                          State: FL  Date: 09DEC84
Sample Type: REGULAR            Latitude: 29-09'46"N   Longitude: 81-36'57"W
Elevation:   14   Surface Temp: 15.7  Stratified: MIXED     Site Depth:   6.4
Lake Area:       6 Watershed Area:     21 WA/LA:      3.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.1  Turbidity:   0.5     Color:     5
Closed pH: 4.45       Equil. pH: 4.45              ANC:  -46.1        DOC:  0.29
Closed DIC:  0.30   Equil. DIC:  0.12    Meas. Cond:  55.5   Cal. Cond:  57.6
Ca:   39.6           Mg:   82.8        Na:  169.2          K:  13.3      NH4:   0.5
SO4:  193.4        HCO3:    0.1       Cl:  155.2         NO3:   0.6        F:   0.8
Sum Cations:  345.2  Sum Anions:  350.1  Cations/Anions: 0.99   Tot. P:   2.0
Tot. Al:  270.0    Ext. Al: 220.0     Fe:     8.0     Mn:    18.0    SiO2:  0.10

ID: 3B1-106   Name: (NO NAME)                          State: FL  Date: 10DEC84
Sample Type: REGULAR            Latitude: 29-34'45"N   Longitude: 81-57'17"W
Elevation:   26   Surface Temp: 15.1  Stratified: MIXED     Site Depth:   4.3
Lake Area:       9 Watershed Area:     57 WA/LA:      6.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.7  Turbidity:   1.8     Color:    10
Closed pH: 4.72       Equil. pH: 4.65              ANC:  -30.6        DOC:  0.39
Closed DIC:  0.31   Equil. DIC:  0.23    Meas. Cond:  50.1   Cal. Cond:  52.9
Ca:   63.7           Mg:   58.7        Na:  180.5          K:  11.3      NH4:   0.7
SO4:  204.9        HCO3:    0.3       Cl:  154.6         NO3:   0.4        F:   1.1
Sum Cations:  337.2  Sum Anions:  361.2  Cations/Anions: 0.93   Tot. P:   3.0
Tot. Al:  136.0    Ext. Al: 112.0     Fe:     9.0     Mn:    22.0    SiO2:  0.08

ID: 3B1-113   Name: BLACK LAKE                         State: FL  Date: 14DEC84
Sample Type: REGULAR            Latitude: 30-31'48"N   Longitude: 85-45'14"W
Elevation:   31   Surface Temp: 15.7  Stratified: MIXED     Site Depth:   8.8
Lake Area:       9 Watershed Area:    124 WA/LA:     13.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.4  Turbidity:   0.7     Color:    15
Closed pH: 5.28       Equil. pH: 5.26              ANC:  -14.2        DOC:  2.92
Closed DIC:  0.38   Equil. DIC:  0.26    Meas. Cond:  16.1   Cal. Cond:  15.7
Ca:   15.6           Mg:   28.5        Na:   55.5           K:   8.4     NH4:   4.5
SO4:   33.7        HCO3:    1.7       Cl:   64.3         NO3:   0.8        F:   0.4
Sum Cations:  117.6  Sum Anions:  100.9  Cations/Anions: 1.17   Tot. P:   8.0
Tot. Al:   36.0    Ext. Al:   0.0     Fe:    33.0     Mn:    14.0    SiO2:  0.48

ID: 3B1-114   Name: LONG POND                          State: FL  Date: 13DEC84
Sample Type: REGULAR            Latitude: 29-40'39"N   Longitude: 81-54'15"W
Elevation:   26   Surface Temp: 14.8  Stratified: MIXED     Site Depth:   2.1
Lake Area:      23 Watershed Area:     98 WA/LA:      4.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.1  Turbidity:   0.8     Color:    20
Closed pH: 5.15       Equil. pH: 5.04              ANC:  -35.8        DOC:  3.35
Closed DIC:  0.59   Equil. DIC:  0.32    Meas. Cond:  32.6   Cal. Cond:  33.2
Ca:   18.4           Mg:   42.5        Na:  166.8           K:   8.2     NH4:   0.3
SO4:   58.7        HCO3:    1.3       Cl:  171.8         NO3:   1.4        F:   0.5
Sum Cations:  244.3  Sum Anions:  233.7  Cations/Anions: 1.05   Tot. P:   5.0
Tot. Al:   52.0    Ext. Al:  15.0     Fe:    10.0     Mn:    18.0    SiO2:  0.04
```

(continued)

TABLE 3-1 (continued)

```
ID: 381-116   Name: (NO NAME)                         State: FL  Date: 09DEC84
Sample Type: REGULAR            Latitude: 28-56'28"N    Longitude: 81-40'15"W
Elevation:   30   Surface Temp: 16.9  Stratified: MIXED     Site Depth:   8.2
Lake Area:        6 Watershed Area:     31 WA/LA:     5.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.6   Turbidity:   2.1     Color:   25
Closed pH: 7.39       Equil. pH: 8.43              ANC:  633.4       DOC:  5.74
Closed DIC:  7.95   Equil. DIC:  7.15    Meas. Cond: 333.0   Cal. Cond: 359.6
Ca:  676.6           Mg: 1325.2        Na:  452.4        K: 347.6     NH4: 22.0
SO4: 1615.6       HCO3:  565.1       Cl:  558.8       NO3:  17.9        F: 13.9
Sum Cations: 2823.9  Sum Anions: 2774.1  Cations/Anions: 1.02  Tot. P:  15.0
Tot. Al:   37.0    Ext. Al:   5.0    Fe:    0.0     Mn:    0.0    SiO2:  0.18

ID: 381-130   Name: PAYNE LAKE                        State: FL  Date: 14DEC84
Sample Type: REGULAR            Latitude: 30-33'25"N    Longitude: 85-39'55"W
Elevation:   22   Surface Temp: 14.5  Stratified: MIXED     Site Depth:   4.6
Lake Area:        8 Watershed Area:     70 WA/LA:     8.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  5.0   Turbidity:   0.2     Color:   10
Closed pH: 5.06       Equil. pH: 4.96              ANC:  -20.7       DOC:  2.99
Closed DIC:  0.47   Equil. DIC:  0.22    Meas. Cond:  17.6   Cal. Cond:  18.8
Ca:    33.1          Mg:    24.2       Na:   51.4        K:   5.8     NH4:  1.5
SO4:    53.7      HCO3:    1.0       Cl:   56.7       NO3:   1.6        F:  0.6
Sum Cations:  126.4  Sum Anions:  113.7  Cations/Anions: 1.11  Tot. P:   6.0
Tot. Al:   20.0    Ext. Al:   2.0    Fe:    7.0     Mn:   29.0    SiO2:  0.07

ID: 381-132   Name: OCHEESEE POND                     State: FL  Date: 14DEC84
Sample Type: REGULAR            Latitude: 30-39'52"N    Longitude: 84-58'15"W
Elevation:   35   Surface Temp: 13.9  Stratified: MIXED     Site Depth:   4.9
Lake Area:       65 Watershed Area:   3978 WA/LA:    61.0 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  3.4   Turbidity:   0.7     Color:   25
Closed pH: 5.84       Equil. pH: 6.37              ANC:   21.1       DOC:  6.30
Closed DIC:  1.21   Equil. DIC:  0.47    Meas. Cond:  17.4   Cal. Cond:  16.0
Ca:    39.3          Mg:    36.6       Na:   63.4        K:   9.2     NH4:  0.8
SO4:    12.4      HCO3:   22.4       Cl:   73.6       NO3:   0.3        F:  1.2
Sum Cations:  149.7  Sum Anions:  109.9  Cations/Anions: 1.36  Tot. P:   9.0
Tot. Al:   86.0    Ext. Al:   0.0    Fe:   48.0     Mn:   30.0    SiO2:  0.65

ID: 381-140   Name: TURKEY PEN POND                   State: FL  Date: 14DEC84
Sample Type: REGULAR            Latitude: 30-33'21"N    Longitude: 85-17'12"W
Elevation:   34   Surface Temp: 15.5  Stratified: MIXED     Site Depth:   7.0
Lake Area:        7 Watershed Area:     65 WA/LA:     9.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.5   Turbidity:   0.6     Color:    5
Closed pH: 4.87       Equil. pH: 4.83              ANC:  -23.8       DOC:  1.60
Closed DIC:  0.48   Equil. DIC:  0.21    Meas. Cond:  16.7   Cal. Cond:  18.7
Ca:    18.4          Mg:    18.6       Na:   50.4        K:   7.4     NH4:  2.3
SO4:    52.7      HCO3:    0.7       Cl:   53.0       NO3:   2.0        F:  0.4
Sum Cations:  111.2  Sum Anions:  108.8  Cations/Anions: 1.02  Tot. P:   2.0
Tot. Al:   91.0    Ext. Al:  15.0    Fe:   10.0     Mn:   47.0    SiO2:  0.08

ID: 382-001   Name: OHIO LAKE                         State: GA  Date: 13DEC84
Sample Type: REGULAR            Latitude: 31-01'02"N    Longitude: 82-12'15"W
Elevation:   37   Surface Temp: 13.2  Stratified: MIXED     Site Depth:   0.9
Lake Area:        6 Watershed Area:      * WA/LA:       *  Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.0   Turbidity:   0.4     Color:  200
Closed pH: 4.06       Equil. pH: 4.05              ANC: -116.9       DOC: 35.10
Closed DIC:  3.98   Equil. DIC:  1.51    Meas. Cond:  53.5   Cal. Cond:  54.9
Ca:    12.5          Mg:    38.4       Na:  145.9        K:   1.2     NH4:  2.4
SO4:     3.1      HCO3:    0.4       Cl:  161.6       NO3:   0.2        F:  0.7
Sum Cations:  291.6  Sum Anions:  166.1  Cations/Anions: 1.76  Tot. P:   6.0
Tot. Al:  106.0    Ext. Al:  15.0    Fe:  476.0     Mn:    8.0    SiO2:  4.06
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-003   Name: DOUBLE LAKES (SOUTH)              State: GA  Date: 13DEC84
Sample Type: REGULAR            Latitude: 30-58'50"N   Longitude: 82-11'45"W
Elevation:   38   Surface Temp: 12.9  Stratified: MIXED     Site Depth:   0.9
Lake Area:     14 Watershed Area:       * WA/LA:       *  Hydro Type: DRAINAGE
Residence Time:   *    Secchi Depth:  1.3   Turbidity:   0.5     Color:  150
Closed pH: 4.33       Equil. pH: 4.28             ANC:  -62.7         DOC: 25.90
Closed DIC:  1.16   Equil. DIC:  0.58    Meas. Cond:  41.2   Cal. Cond:  41.8
Ca:   21.7          Mg:    43.4        Na:  145.1          K:    3.7      NH4:  7.4
SO4:     7.8      HCO3:     0.3       Cl:  155.4        NO3:    0.8         F:  0.8
Sum Cations:  271.5  Sum Anions:   165.1  Cations/Anions: 1.64   Tot. P:   8.0
Tot. Al:  116.0    Ext. Al:   30.0     Fe:  501.0       Mn:    11.0    SiO2:  1.63

ID: 382-005   Name: DURDIN LAKE                       State: GA  Date: 13DEC84
Sample Type: REGULAR            Latitude: 30-53'13"N   Longitude: 82-08'50"W
Elevation:   37   Surface Temp: 12.9  Stratified: MIXED     Site Depth:   1.1
Lake Area:      5 Watershed Area:       * WA/LA:       *  Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.9   Turbidity:   0.8     Color:  200
Closed pH: 4.01       Equil. pH: 3.98             ANC: -127.2         DOC: 34.02
Closed DIC:  0.98   Equil. DIC:  0.71    Meas. Cond:  62.0   Cal. Cond:  61.0
Ca:   11.9          Mg:    42.7        Na:  152.3          K:    1.8      NH4:  2.0
SO4:     3.0      HCO3:     0.2       Cl:  172.9        NO3:    0.3         F:  0.6
Sum Cations:  315.4  Sum Anions:   177.0  Cations/Anions: 1.78   Tot. P:   7.0
Tot. Al:   91.0    Ext. Al:   23.0     Fe:  589.0       Mn:     9.0    SiO2:  6.68

ID: 382-006   Name: HALF MOON LAKE                    State: GA  Date: 13DEC84
Sample Type: REGULAR            Latitude: 30-52'27"N   Longitude: 82-08'43"W
Elevation:   37   Surface Temp: 11.9  Stratified: MIXED     Site Depth:   0.9
Lake Area:      5 Watershed Area:       * WA/LA:       *  Hydro Type: DRAINAGE
Residence Time:   *    Secchi Depth:  0.6   Turbidity:   0.8     Color:  225
Closed pH: 4.05       Equil. pH: 4.02             ANC: -122.1         DOC: 38.44
Closed DIC:  3.06   Equil. DIC:  1.21    Meas. Cond:  55.7   Cal. Cond:  58.4
Ca:   11.6          Mg:    43.2        Na:  146.1          K:    1.2      NH4:  4.2
SO4:     4.7      HCO3:     0.3       Cl:  171.8        NO3:    0.3         F:  0.7
Sum Cations:  304.0  Sum Anions:   177.8  Cations/Anions: 1.71   Tot. P:   7.0
Tot. Al:  101.0    Ext. Al:   28.0     Fe:  792.0       Mn:     8.0    SiO2:  6.59

ID: 382-010   Name: BUZZARD ROOST LAKE                State: GA  Date: 13DEC84
Sample Type: REGULAR            Latitude: 30-40'05"N   Longitude: 82-12'25"W
Elevation:   37   Surface Temp: 15.9  Stratified: MIXED     Site Depth:   0.9
Lake Area:      6 Watershed Area:       * WA/LA:       *  Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.6   Turbidity:   0.7     Color:  200
Closed pH: 4.08       Equil. pH: 4.06             ANC: -113.4         DOC: 40.56
Closed DIC:  1.66   Equil. DIC:  0.57    Meas. Cond:  60.8   Cal. Cond:  61.5
Ca:   31.6          Mg:    57.6        Na:  176.3          K:    6.1      NH4: 16.7
SO4:     6.2      HCO3:     0.2       Cl:  196.6        NO3:    0.7         F:  0.7
Sum Cations:  375.4  Sum Anions:   204.4  Cations/Anions: 1.84   Tot. P:  12.0
Tot. Al:   60.0    Ext. Al:    9.0     Fe:  329.0       Mn:     8.0    SiO2:  4.90

ID: 382-011   Name: SEAGROVE LAKE                     State: GA  Date: 13DEC84
Sample Type: REGULAR            Latitude: 30-42'33"N   Longitude: 82-10'18"W
Elevation:   36   Surface Temp: 16.4  Stratified: MIXED     Site Depth:   0.9
Lake Area:      5 Watershed Area:       * WA/LA:       *  Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.4   Turbidity:   1.7     Color:  200
Closed pH: 3.96       Equil. pH: 3.94             ANC: -148.8         DOC: 38.44
Closed DIC:  0.66   Equil. DIC:  0.38    Meas. Cond:  70.1   Cal. Cond:  74.8
Ca:   21.8          Mg:    59.6        Na:  171.8          K:    0.7      NH4: 17.2
SO4:    12.8      HCO3:     0.1       Cl:  225.7        NO3:    0.8         F:  0.7
Sum Cations:  391.4  Sum Anions:   240.1  Cations/Anions: 1.63   Tot. P:  15.0
Tot. Al:  110.0    Ext. Al:   30.0     Fe:  486.0       Mn:     7.0    SiO2:  0.19
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-013   Name: TROUT LAKE                        State: FL  Date: 04DEC84
Sample Type: REGULAR           Latitude: 27-38'49"N   Longitude: 81-30'27"W
Elevation:   31   Surface Temp: 20.5  Stratified: MIXED      Site Depth:   7.6
Lake Area:     57 Watershed Area:    347 WA/LA:      6.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.4   Turbidity:   0.8     Color:    15
Closed pH: 6.51      Equil. pH: 6.71              ANC:    33.0        DOC:  3.18
Closed DIC:  0.73   Equil. DIC:   0.59    Meas. Cond: 139.0   Cal. Cond: 157.3
Ca:  265.1          Mg:  456.5       Na:  328.0         K: 125.8      NH4:   0.3
SO4:  780.8       HCO3:   33.5       Cl:  358.3       NO3:    0.0        F:   5.5
Sum Cations: 1175.9  Sum Anions: 1178.0  Cations/Anions: 1.00   Tot. P:  15.0
Tot. Al:    16.0   Ext. Al:    1.0   Fe:      2.0     Mn:     0.0    SiO2:  0.93

ID: 382-014   Name: LAKE PYTHIAS                      State: FL  Date: 04DEC84
Sample Type: REGULAR           Latitude: 27-38'09"N   Longitude: 81-29'50"W
Elevation:   31   Surface Temp: 20.5  Stratified: MIXED      Site Depth:   4.0
Lake Area:    104 Watershed Area:    225 WA/LA:      2.2 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  1.7   Turbidity:   0.9     Color:    15
Closed pH: 5.72      Equil. pH: 5.71              ANC:    -4.5        DOC:  2.75
Closed DIC:  0.30   Equil. DIC:   0.29    Meas. Cond: 168.0   Cal. Cond: 192.1
Ca:  231.8          Mg:  636.3       Na:  388.9         K: 148.3      NH4:   1.1
SO4:  930.7       HCO3:    7.2       Cl:  505.0       NO3:    2.5        F:   5.2
Sum Cations: 1407.4  Sum Anions: 1450.5  Cations/Anions: 0.97   Tot. P:  14.0
Tot. Al:    49.0   Ext. Al:   14.0   Fe:     17.0     Mn:    34.0    SiO2:  1.95

ID: 382-015   Name: LAKE BRENTWOOD                    State: FL  Date: 05DEC84
Sample Type: REGULAR           Latitude: 27-37'17"N   Longitude: 81-30'43"W
Elevation:   32   Surface Temp: 21.0  Stratified: MIXED      Site Depth:   6.1
Lake Area:     23 Watershed Area:     88 WA/LA:      3.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  5.5   Turbidity:   0.9     Color:    10
Closed pH: 7.32      Equil. pH: 7.65              ANC:   344.4        DOC:  2.99
Closed DIC:  4.79   Equil. DIC:   4.10    Meas. Cond: 260.0   Cal. Cond: 307.5
Ca:  721.1          Mg: 1041.4       Na:  396.7         K: 195.4      NH4:   1.2
SO4: 1476.1       HCO3:  304.2       Cl:  510.6       NO3:   54.5        F:   9.7
Sum Cations: 2355.8  Sum Anions: 2356.1  Cations/Anions: 1.00   Tot. P:   6.0
Tot. Al:    30.0   Ext. Al:   13.0   Fe:      4.0     Mn:     4.0    SiO2:  0.60

ID: 382-016   Name: LAKE VIOLA                        State: FL  Date: 05DEC84
Sample Type: REGULAR           Latitude: 27-36'45"N   Longitude: 81-29'45"W
Elevation:   34   Surface Temp: 21.4  Stratified: MIXED      Site Depth:   9.8
Lake Area:     29 Watershed Area:    197 WA/LA:      6.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.6   Turbidity:   0.4     Color:    10
Closed pH: 7.73      Equil. pH: 8.09              ANC:   440.9        DOC:  2.84
Closed DIC:  5.04   Equil. DIC:   4.89    Meas. Cond: 217.0   Cal. Cond: 250.8
Ca:  563.9          Mg:  857.1       Na:  292.7         K: 223.5      NH4:   0.8
SO4: 1116.0       HCO3:  362.6       Cl:  406.2       NO3:   53.9        F:   6.8
Sum Cations: 1938.0  Sum Anions: 1946.6  Cations/Anions: 1.00   Tot. P:   5.0
Tot. Al:    38.0   Ext. Al:   21.0   Fe:      0.0     Mn:     2.0    SiO2:  0.65

ID: 382-019   Name: LAKE GLENADA                      State: FL  Date: 05DEC84
Sample Type: REGULAR           Latitude: 27-33'48"N   Longitude: 81-30'22"W
Elevation:   35   Surface Temp: 21.0  Stratified: MIXED      Site Depth:   9.1
Lake Area:     74 Watershed Area:    829 WA/LA:     11.2 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  1.1   Turbidity:  20.0     Color:    70
Closed pH: 8.96      Equil. pH: 8.24              ANC:   621.4        DOC: 12.39
Closed DIC:  6.13   Equil. DIC:   7.36    Meas. Cond: 179.0   Cal. Cond: 176.5
Ca:  482.2          Mg:  240.4       Na:  813.4         K: 102.0      NH4:   0.7
SO4:  260.3       HCO3:  518.0       Cl:  550.1       NO3:    9.1        F:   3.5
Sum Cations: 1638.9  Sum Anions: 1341.8  Cations/Anions: 1.22   Tot. P: 495.0
Tot. Al:    32.0   Ext. Al:    7.5   Fe:      5.0     Mn:     1.0    SiO2:  1.47
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-020   Name: LAKE ANGELO                         State: FL  Date: 05DEC84
Sample Type: REGULAR              Latitude: 27-35'09"N    Longitude: 81-28'00"W
Elevation:   28   Surface Temp: 21.9  Stratified: MIXED      Site Depth:   4.6
Lake Area:     22 Watershed Area:     145 WA/LA:      6.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.4   Turbidity:   0.6      Color:    5
Closed pH: 5.70       Equil. pH: 5.80              ANC:    38.7         DOC:  2.27
Closed DIC:  0.36   Equil. DIC:  0.44    Meas. Cond: 197.0   Cal. Cond: 216.9
Ca:  207.7          Mg:  856.3       Na:  388.6         K: 180.0       NH4:  1.7
SO4:  970.2       HCO3:    6.5       Cl:  592.4       NO3:  33.5          F:  2.3
Sum Cations: 1636.5  Sum Anions: 1604.9  Cations/Anions: 1.02   Tot. P:   7.0
Tot. Al:   39.0    Ext. Al:   9.0    Fe:     6.0      Mn:    66.0     SiO2:  0.67

ID: 382-021   Name: LAKE LETTA                          State: FL  Date: 05DEC84
Sample Type: REGULAR              Latitude: 27-33'38"N    Longitude: 81-27'45"W
Elevation:   30   Surface Temp: 21.0  Stratified: MIXED      Site Depth:   2.7
Lake Area:    191 Watershed Area:    3428 WA/LA:     18.0 Hydro Type: DRAINAGE
Residence Time:  0.22  Secchi Depth:  1.1   Turbidity:   1.9      Color:   15
Closed pH: 6.75       Equil. pH: 6.78              ANC:    50.4         DOC:  2.21
Closed DIC:  0.99   Equil. DIC:  0.87    Meas. Cond: 166.0   Cal. Cond: 187.9
Ca:  297.9          Mg:  576.0       Na:  399.7         K: 120.4       NH4:  0.1
SO4:  818.2       HCO3:   56.8       Cl:  558.6       NO3:   0.0          F:  2.5
Sum Cations: 1394.2  Sum Anions: 1436.2  Cations/Anions: 0.97   Tot. P:  19.0
Tot. Al:   89.0    Ext. Al:   0.0    Fe:     4.0      Mn:     3.0     SiO2:  1.02

ID: 382-022   Name: LAKE SEBRING                        State: FL  Date: 05DEC84
Sample Type: REGULAR              Latitude: 27-31'41"N    Longitude: 81-29'03"W
Elevation:   33   Surface Temp: 21.4  Stratified: MIXED      Site Depth:   3.4
Lake Area:    188 Watershed Area:    1254 WA/LA:      6.7 Hydro Type: DRAINAGE
Residence Time:  0.55  Secchi Depth:  0.4   Turbidity:   8.6      Color:  100
Closed pH: 6.19       Equil. pH: 6.25              ANC:    77.1         DOC:  9.00
Closed DIC:  0.40   Equil. DIC:  0.66    Meas. Cond:  73.6   Cal. Cond:  71.3
Ca:  192.2          Mg:  114.7       Na:  261.9         K:  32.2       NH4:  1.2
SO4:  201.5       HCO3:   19.4       Cl:  269.4       NO3:   3.0          F:  3.3
Sum Cations:  602.9  Sum Anions:  496.7  Cations/Anions: 1.21   Tot. P:  64.0
Tot. Al:  228.0    Ext. Al:  48.0    Fe:    68.0      Mn:     4.0     SiO2:  0.70

ID: 382-023   Name: BONNET LAKE                         State: FL  Date: 05DEC84
Sample Type: REGULAR              Latitude: 27-32'38"N    Longitude: 81-26'28"W
Elevation:   28   Surface Temp: 21.2  Stratified: MIXED      Site Depth:   2.7
Lake Area:    105 Watershed Area:    5672 WA/LA:     54.1 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  0.8   Turbidity:   7.2      Color:   40
Closed pH: 8.43       Equil. pH: 7.79              ANC:   474.9         DOC:  5.49
Closed DIC:  4.43   Equil. DIC:  5.05    Meas. Cond: 245.0   Cal. Cond: 245.1
Ca:  629.7          Mg:  789.9       Na:  344.1         K: 147.0       NH4:  0.5
SO4: 1057.7       HCO3:  350.8       Cl:  482.4       NO3:   6.5          F:  2.8
Sum Cations: 1911.3  Sum Anions: 1900.9  Cations/Anions: 1.01   Tot. P:  40.0
Tot. Al:   46.0    Ext. Al:  12.0    Fe:     2.0      Mn:     2.0     SiO2:  4.12

ID: 382-024   Name: BASKET LAKE                         State: FL  Date: 05DEC84
Sample Type: REGULAR              Latitude: 27-31'43"N    Longitude: 81-26'38"W
Elevation:   30   Surface Temp: 21.1  Stratified: MIXED      Site Depth:   8.5
Lake Area:     22 Watershed Area:     127 WA/LA:      5.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  5.8   Turbidity:   0.6      Color:    5
Closed pH: 7.56       Equil. pH: 7.66              ANC:   431.1         DOC:  1.72
Closed DIC:  5.13   Equil. DIC:  4.81    Meas. Cond: 333.0   Cal. Cond: 400.6
Ca: 1154.7          Mg: 1245.4       Na:  335.3         K: 306.8       NH4:  1.3
SO4: 1944.6       HCO3:  375.8       Cl:  598.1       NO3: 106.1          F: 16.2
Sum Cations: 3043.5  Sum Anions: 3042.4  Cations/Anions: 1.00   Tot. P:   3.0
Tot. Al:   65.0    Ext. Al:  35.0    Fe:     0.0      Mn:     1.0     SiO2:  0.94
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-025   Name: HUCKLEBERRY LAKE                 State: FL  Date: 03DEC84
Sample Type: REGULAR           Latitude: 27-27'08"N   Longitude: 81-27'50"W
Elevation:   32  Surface Temp: 19.9  Stratified: MIXED     Site Depth:   7.3
Lake Area:     47 Watershed Area:    303 WA/LA:     6.4 Hydro Type: DRAINAGE
Residence Time:  1.20  Secchi Depth:  0.6  Turbidity:   1.7    Color:  105
Closed pH: 6.52       Equil. pH: 6.44              ANC:   71.0       DOC: 14.31
Closed DIC:  0.67  Equil. DIC:  0.52   Meas. Cond:  66.5  Cal. Cond:  67.4
Ca:  274.8          Mg:   88.5      Na:  210.1         K:  27.3      NH4:   1.3
SO4:  169.5       HCO3:   38.4      Cl:  227.7       NO3:   8.8         F:   5.4
Sum Cations:  602.4  Sum Anions:  449.8  Cations/Anions: 1.34   Tot. P: 256.0
Tot. Al:   99.0   Ext. Al:  33.0    Fe:   46.0     Mn:    1.0    SiO2:  1.00

ID: 382-026   Name: WOLF LAKE                        State: FL  Date: 03DEC84
Sample Type: REGULAR           Latitude: 27-25'17"N   Longitude: 81-28'27"W
Elevation:   28  Surface Temp: 19.8  Stratified: MIXED     Site Depth:   1.2
Lake Area:     48 Watershed Area:   1344 WA/LA:    28.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.3  Turbidity:  16.0    Color:  200
Closed pH: 5.62       Equil. pH: 5.81              ANC:   58.3       DOC: 24.99
Closed DIC:  1.36  Equil. DIC:  0.75   Meas. Cond:  76.0  Cal. Cond:  77.2
Ca:  262.6          Mg:  120.0      Na:  241.9         K:  64.4      NH4:   2.9
SO4:  122.4       HCO3:   13.1      Cl:  349.8       NO3:   4.6         F:   2.5
Sum Cations:  693.6  Sum Anions:  492.4  Cations/Anions: 1.41   Tot. P: 175.0
Tot. Al:  610.0   Ext. Al: 186.0    Fe:  221.0     Mn:    4.0    SiO2:  1.50

ID: 382-027   Name: LAKE CHARLOTTE                   State: FL  Date: 03DEC84
Sample Type: REGULAR           Latitude: 27-26'00"N   Longitude: 81-27'00"W
Elevation:   28  Surface Temp: 20.0  Stratified: MIXED     Site Depth:   6.7
Lake Area:     81 Watershed Area:    308 WA/LA:     3.8 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.9  Turbidity:   3.9    Color:   50
Closed pH: 4.76       Equil. pH: 4.72              ANC:  -23.3       DOC:  3.99
Closed DIC:  0.38  Equil. DIC:  0.28   Meas. Cond:  73.9  Cal. Cond:  81.0
Ca:  112.9          Mg:  119.4      Na:  278.8         K:  33.8      NH4:   2.1
SO4:  226.9       HCO3:    0.6      Cl:  332.9       NO3:   2.7         F:   2.8
Sum Cations:  568.4  Sum Anions:  565.9  Cations/Anions: 1.00   Tot. P: 123.0
Tot. Al:  136.0   Ext. Al:  71.0    Fe:   35.0     Mn:    9.0    SiO2:  1.83

ID: 382-029   Name: LAKE JOSEPHINE                   State: FL  Date: 04DEC84
Sample Type: REGULAR           Latitude: 27-23'36"N   Longitude: 81-26'26"W
Elevation:   22  Surface Temp: 21.8  Stratified: MIXED     Site Depth:   1.8
Lake Area:    494 Watershed Area:  12212 WA/LA:    24.8 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  0.9  Turbidity:   3.6    Color:  100
Closed pH: 6.82       Equil. pH: 6.83              ANC:   99.2       DOC: 12.91
Closed DIC:  1.10  Equil. DIC:  1.05   Meas. Cond:  74.1  Cal. Cond:  72.4
Ca:  245.7          Mg:  150.4      Na:  247.9         K:  27.3      NH4:   0.7
SO4:  119.7       HCO3:   51.8      Cl:  304.7       NO3:   0.0         F:   2.0
Sum Cations:  672.2  Sum Anions:  478.2  Cations/Anions: 1.41   Tot. P:  43.0
Tot. Al:  147.0   Ext. Al:  36.0    Fe:   68.0     Mn:    0.0    SiO2:  0.98

ID: 382-030   Name: LAKE CARRIE                      State: FL  Date: 03DEC84
Sample Type: REGULAR           Latitude: 27-20'14"N   Longitude: 81-25'40"W
Elevation:   23  Surface Temp: 19.8  Stratified: MIXED     Site Depth:   3.3
Lake Area:     26 Watershed Area:    332 WA/LA:    12.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.0  Turbidity:   2.9    Color:  125
Closed pH: 6.92       Equil. pH: 7.18              ANC:  234.4       DOC: 15.54
Closed DIC:  2.93  Equil. DIC:  2.37   Meas. Cond:  72.3  Cal. Cond:  73.3
Ca:  388.2          Mg:  107.2      Na:  187.5         K:  19.0      NH4:   1.1
SO4:  124.5       HCO3:  168.6      Cl:  209.9       NO3:   1.0         F:   1.5
Sum Cations:  703.1  Sum Anions:  505.7  Cations/Anions: 1.39   Tot. P:  18.0
Tot. Al:  177.0   Ext. Al:  38.0    Fe:   53.0     Mn:    0.0    SiO2:  1.71
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-031   Name: RED WATER LAKE                     State: FL  Date: 04DEC84
Sample Type: REGULAR            Latitude: 27-20'50"N    Longitude: 81-23'45"W
Elevation:   21   Surface Temp: 21.6  Stratified: MIXED      Site Depth:   4.6
Lake Area:     25 Watershed Area:    363 WA/LA:     14.5 Hydro Type: DRAINAGE
Residence Time:  0.67  Secchi Depth:  1.7  Turbidity:   3.1     Color:    30
Closed pH: 8.07       Equil. pH: 7.45              ANC:  260.9         DOC:  6.15
Closed DIC:  2.77  Equil. DIC:  2.63    Meas. Cond: 157.0   Cal. Cond: 174.7
Ca:  386.4          Mg:  570.1        Na:  326.3          K: 112.3       NH4:  0.6
SO4:  603.8       HCO3:  198.9       Cl:  516.2         NO3:   1.5          F:  2.3
Sum Cations: 1395.8  Sum Anions: 1323.0  Cations/Anions: 1.05   Tot. P:  17.0
Tot. Al:   23.0    Ext. Al:  10.0    Fe:     1.0      Mn:     0.0    SiO2:  0.64

ID: 382-032   Name: NORTHWEST LAKE NELLIE              State: FL  Date: 04DEC84
Sample Type: REGULAR            Latitude: 27-21'13"N    Longitude: 81-23'01"W
Elevation:   22   Surface Temp: 21.6  Stratified: MIXED      Site Depth:   9.8
Lake Area:      9 Watershed Area:    225 WA/LA:     25.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.9  Turbidity:   2.3     Color:    10
Closed pH: 7.48       Equil. pH: 7.58              ANC:  435.1         DOC:  4.67
Closed DIC:  5.29  Equil. DIC:  4.68    Meas. Cond: 309.0   Cal. Cond: 376.3
Ca:  908.2          Mg: 1081.7        Na:  482.8          K: 319.6       NH4:  0.4
SO4: 1788.4       HCO3:  356.8       Cl:  753.2         NO3:   8.1          F:  2.9
Sum Cations: 2792.8  Sum Anions: 2910.6  Cations/Anions: 0.96   Tot. P:   8.0
Tot. Al:   21.0    Ext. Al:  24.0    Fe:     0.0      Mn:     0.0    SiO2:  0.92

ID: 382-033   Name: SOUTHEAST LAKE NELLIE              State: FL  Date: 04DEC84
Sample Type: REGULAR            Latitude: 27-20'53"N    Longitude: 81-22'33"W
Elevation:   22   Surface Temp: 21.5  Stratified: MIXED      Site Depth:  12.8
Lake Area:     11 Watershed Area:    225 WA/LA:     20.1 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.8  Turbidity:   2.5     Color:    15
Closed pH: 7.75       Equil. pH: 8.25              ANC:  539.7         DOC:  3.88
Closed DIC:  6.36  Equil. DIC:  5.60    Meas. Cond: 367.0   Cal. Cond: 451.7
Ca: 1258.5          Mg: 1315.3        Na:  513.3          K: 302.5       NH4:  5.8
SO4: 2046.6       HCO3:  443.8       Cl:  761.7         NO3: 235.5          F:  4.6
Sum Cations: 3395.5  Sum Anions: 3494.1  Cations/Anions: 0.97   Tot. P:   5.0
Tot. Al:   68.0    Ext. Al:  53.0    Fe:     3.0      Mn:   130.0    SiO2:  3.13

ID: 382-035   Name: LAKE JUNE IN WINTER                State: FL  Date: 03DEC84
Sample Type: REGULAR            Latitude: 27-18'17"N    Longitude: 81-24'03"W
Elevation:   22   Surface Temp: 19.9  Stratified: MIXED      Site Depth:   7.9
Lake Area:   1399 Watershed Area:      * WA/LA:        *  Hydro Type: DRAINAGE
Residence Time:    *    Secchi Depth:  1.6  Turbidity:   2.9     Color:    20
Closed pH: 8.19       Equil. pH: 7.23              ANC:  166.2         DOC:  5.04
Closed DIC:  1.84  Equil. DIC:  1.69    Meas. Cond: 128.4   Cal. Cond: 134.1
Ca:  290.1          Mg:  378.3        Na:  310.6          K: 102.2       NH4:  0.8
SO4:  443.5       HCO3:  135.4       Cl:  418.9         NO3:   0.1          F:  2.9
Sum Cations: 1082.0  Sum Anions: 1001.1  Cations/Anions: 1.08   Tot. P:  13.5
Tot. Al:   38.0    Ext. Al:   8.0    Fe:     0.0      Mn:     0.0    SiO2:  0.20

ID: 382-036   Name: LAKE SIRENA                        State: FL  Date: 03DEC84
Sample Type: REGULAR            Latitude: 27-17'04"N    Longitude: 81-22'10"W
Elevation:   26   Surface Temp: 20.7  Stratified: MIXED      Site Depth:  10.7
Lake Area:     61 Watershed Area:    308 WA/LA:      5.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.1  Turbidity:   0.5     Color:    15
Closed pH: 7.36       Equil. pH: 7.07              ANC:  175.9         DOC:  4.24
Closed DIC:  2.27  Equil. DIC:  1.97    Meas. Cond: 151.0   Cal. Cond: 157.8
Ca:  454.0          Mg:  402.3        Na:  310.2          K: 114.8       NH4:  3.3
SO4:  568.4       HCO3:  154.5       Cl:  426.0         NO3:   2.5          F:  2.8
Sum Cations: 1284.6  Sum Anions: 1154.4  Cations/Anions: 1.11   Tot. P:   7.0
Tot. Al:   23.0    Ext. Al:   5.0    Fe:     0.0      Mn:     0.0    SiO2:  0.50
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-037   Name: MIRROR LAKE                      State: FL  Date: 04DEC84
Sample Type: REGULAR            Latitude: 27-16'31"N   Longitude: 81-21'38"W
Elevation:   28   Surface Temp: 21.4  Stratified: MIXED      Site Depth:  12.8
Lake Area:      37 Watershed Area:     137 WA/LA:      3.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.0  Turbidity:   1.2      Color:   10
Closed pH: 7.13        Equil. pH: 6.96             ANC:   89.6        DOC:  3.67
Closed DIC:  1.21  Equil. DIC:  0.99   Meas. Cond:  82.4   Cal. Cond:  82.9
Ca:  165.6            Mg:  213.6        Na:  261.9          K:  48.6      NH4:  0.3
SO4:  222.8         HCO3:   65.1       Cl:  316.0        NO3:   0.0         F:  1.6
Sum Cations:  690.1  Sum Anions:  605.5  Cations/Anions: 1.14   Tot. P:   9.0
Tot. Al:   13.0   Ext. Al:   3.0    Fe:    1.0      Mn:    0.0    SiO2:  0.36

ID: 382-048   Name: LAKE ISTOKPOGA                   State: FL  Date: 04DEC84
Sample Type: REGULAR            Latitude: 27-22'24"N   Longitude: 81-17'13"W
Elevation:   12   Surface Temp: 20.8  Stratified: MIXED      Site Depth:   1.8
Lake Area:  11174 Watershed Area:       * WA/LA:        *  Hydro Type: DRAINAGE
Residence Time:    *    Secchi Depth:  0.9  Turbidity:   4.0      Color:   75
Closed pH: 6.79        Equil. pH: 6.82             ANC:   70.7        DOC:  9.43
Closed DIC:  0.78  Equil. DIC:  0.66   Meas. Cond: 132.0   Cal. Cond: 143.2
Ca:  326.5            Mg:  336.5        Na:  391.5          K:  67.5      NH4:  0.6
SO4:  530.9         HCO3:   36.2       Cl:  476.7        NO3:   8.0         F:  3.2
Sum Cations: 1122.9  Sum Anions: 1055.1  Cations/Anions: 1.06   Tot. P:  60.0
Tot. Al:  121.0   Ext. Al:  11.0    Fe:   80.0      Mn:    3.0    SiO2:  2.30

ID: 382-053   Name: LAKE ANNIE                       State: FL  Date: 02DEC84
Sample Type: REGULAR            Latitude: 27-12'30"N   Longitude: 81-21'00"W
Elevation:   34   Surface Temp: 21.1  Stratified: MIXED      Site Depth:  12.5
Lake Area:      34 Watershed Area:     114 WA/LA:      3.3 Hydro Type: DRAINAGE
Residence Time:  3.26  Secchi Depth:  5.3  Turbidity:   0.3      Color:    8
Closed pH: 5.56        Equil. pH: 5.54             ANC:   -3.0        DOC:  2.59
Closed DIC:  0.82  Equil. DIC:  0.67   Meas. Cond:  41.2   Cal. Cond:  42.3
Ca:   98.4            Mg:   58.8        Na:  139.4          K:  10.1      NH4:  6.7
SO4:  145.2         HCO3:    5.4       Cl:  160.4        NO3:   0.4         F:  0.4
Sum Cations:  316.1  Sum Anions:  311.8  Cations/Anions: 1.01   Tot. P:   4.5
Tot. Al:   99.5   Ext. Al:  23.0    Fe:   36.0      Mn:    2.5    SiO2:  1.12

ID: 382-054   Name: RED BEACH LAKE                   State: FL  Date: 04DEC84
Sample Type: REGULAR            Latitude: 27-25'55"N   Longitude: 81-24'15"W
Elevation:   23   Surface Temp: 21.0  Stratified: MIXED      Site Depth:   4.3
Lake Area:     134 Watershed Area:     875 WA/LA:      6.5 Hydro Type: DRAINAGE
Residence Time:  0.93  Secchi Depth:  0.8  Turbidity:   1.9      Color:   70
Closed pH: 6.73        Equil. pH: 6.61             ANC:   52.1        DOC:  5.93
Closed DIC:  0.77  Equil. DIC:  0.64   Meas. Cond:  67.2   Cal. Cond:  67.9
Ca:   99.2            Mg:  194.4        Na:  225.3          K:  42.7      NH4:  0.7
SO4:  165.9         HCO3:   48.1       Cl:  277.0        NO3:   8.0         F:  0.9
Sum Cations:  562.3  Sum Anions:  500.0  Cations/Anions: 1.12   Tot. P:  15.0
Tot. Al:   80.0   Ext. Al:   8.0    Fe:   57.0      Mn:    0.0    SiO2:  0.03

ID: 382-055   Name: LAKE FRANCIS                     State: FL  Date: 03DEC84
Sample Type: REGULAR            Latitude: 27-20'15"N   Longitude: 81-24'30"W
Elevation:   21   Surface Temp: 20.1  Stratified: MIXED      Site Depth:   5.2
Lake Area:     213 Watershed Area:       * WA/LA:        * Hydro Type: DRAINAGE
Residence Time:    *    Secchi Depth:  1.9  Turbidity:   2.0      Color:   20
Closed pH: 8.38        Equil. pH: 7.22             ANC:  144.5        DOC:  4.02
Closed DIC:  1.66  Equil. DIC:  1.58   Meas. Cond: 118.9   Cal. Cond: 125.3
Ca:  212.9            Mg:  364.2        Na:  323.6          K:  89.5      NH4:  0.7
SO4:  353.9         HCO3:  125.8       Cl:  476.7        NO3:   0.0         F:  2.2
Sum Cations:  991.0  Sum Anions:  958.8  Cations/Anions: 1.03   Tot. P:  14.0
Tot. Al:   32.0   Ext. Al:  10.0    Fe:    1.0      Mn:    0.0    SiO2:  0.73
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-056   Name: GRASSY LAKE                      State: FL  Date: 04DEC84
Sample Type: REGULAR            Latitude: 27-15'00"N    Longitude: 81-20'00"W
Elevation:   27   Surface Temp: 21.3  Stratified: MIXED     Site Depth:   4.9
Lake Area:     206 Watershed Area:    1194 WA/LA:      5.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.5  Turbidity:   1.1      Color:   15
Closed pH: 7.59        Equil. pH: 7.55              ANC:  239.0        DOC:  7.36
Closed DIC:  2.71   Equil. DIC:  2.35    Meas. Cond: 145.0   Cal. Cond: 160.4
Ca:  474.5           Mg:  338.6       Na:  332.8         K: 138.3      NH4:  0.6
SO4:  615.2        HCO3:  177.8       Cl:  389.3       NO3:    3.9         F:  4.4
Sum Cations: 1284.9  Sum Anions: 1190.8  Cations/Anions: 1.08   Tot. P:   9.0
Tot. Al:   49.0    Ext. Al:  23.0    Fe:     0.5     Mn:     0.0    SiO2:  0.18

ID: 382-061   Name: LAKE HILL                        State: FL  Date: 03DEC84
Sample Type: REGULAR            Latitude: 27-21'00"N    Longitude: 81-26'20"W
Elevation:   30   Surface Temp: 20.1  Stratified: MIXED     Site Depth:   4.9
Lake Area:      28 Watershed Area:     570 WA/LA:     20.2 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  1.8  Turbidity:   1.6      Color:   20
Closed pH: 5.75        Equil. pH: 5.53              ANC:   -2.1        DOC:  3.03
Closed DIC:  0.28   Equil. DIC:  0.37    Meas. Cond:  53.4   Cal. Cond:  53.4
Ca:  116.3           Mg:   86.2       Na:  191.8         K:   9.1      NH4:  0.3
SO4:  180.1        HCO3:    9.8       Cl:  213.5       NO3:    1.5         F:  0.7
Sum Cations:  404.7  Sum Anions:  405.7  Cations/Anions: 1.00   Tot. P:  12.0
Tot. Al:  208.0    Ext. Al:  30.0    Fe:     4.0     Mn:     4.0    SiO2:  1.12

ID: 382-062   Name: LAKE DAMON                       State: FL  Date: 04DEC84
Sample Type: REGULAR            Latitude: 27-38'00"N    Longitude: 81-30'35"W
Elevation:   31   Surface Temp: 20.8  Stratified: MIXED     Site Depth:   4.6
Lake Area:     108 Watershed Area:     347 WA/LA:      3.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.9  Turbidity:   0.8      Color:   10
Closed pH: 5.87        Equil. pH: 5.69              ANC:   -4.1        DOC:  2.77
Closed DIC:  0.23   Equil. DIC:  0.23    Meas. Cond: 223.0   Cal. Cond: 277.7
Ca:  362.6           Mg:  892.5       Na:  434.6         K: 242.9      NH4:  0.4
SO4: 1667.7        HCO3:    2.6       Cl:  451.4       NO3:    0.2         F:  6.6
Sum Cations: 1935.4  Sum Anions: 2128.5  Cations/Anions: 0.91   Tot. P:   9.0
Tot. Al:   43.0    Ext. Al:  20.0    Fe:     8.0     Mn:    36.0    SiO2:  1.31

ID: 382-063   Name: LAKE DENTON                      State: FL  Date: 05DEC84
Sample Type: REGULAR            Latitude: 27-33'20"N    Longitude: 81-29'21"W
Elevation:   34   Surface Temp: 21.4  Stratified: MIXED     Site Depth:  13.4
Lake Area:      26 Watershed Area:      96 WA/LA:      3.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  8.4  Turbidity:   0.1      Color:   10
Closed pH: 7.63        Equil. pH: 7.91              ANC:  361.0        DOC:  1.00
Closed DIC:  4.63   Equil. DIC:  4.51    Meas. Cond: 239.0   Cal. Cond: 271.0
Ca:  720.1           Mg:  890.9       Na:  260.8         K: 241.6      NH4:  0.6
SO4: 1041.0        HCO3:  339.0       Cl:  507.8       NO3:  172.6         F:  9.9
Sum Cations: 2114.0  Sum Anions: 2071.2  Cations/Anions: 1.02   Tot. P:   3.0
Tot. Al:   63.0    Ext. Al:  41.0    Fe:     0.0     Mn:     0.0    SiO2:  1.40

ID: 382-065   Name: LAKE LELIA                       State: FL  Date: 05DEC84
Sample Type: REGULAR            Latitude: 27-34'25"N    Longitude: 81-30'15"W
Elevation:   34   Surface Temp: 20.8  Stratified: MIXED     Site Depth:   7.9
Lake Area:      64 Watershed Area:    1098 WA/LA:     17.2 Hydro Type: DRAINAGE
Residence Time:  0.66  Secchi Depth:  1.4  Turbidity:   2.3      Color:   25
Closed pH: 8.06        Equil. pH: 7.68              ANC:  209.7        DOC:  4.89
Closed DIC:  2.37   Equil. DIC:  2.55    Meas. Cond: 156.0   Cal. Cond: 174.7
Ca:  425.7           Mg:  457.4       Na:  330.9         K: 128.9      NH4:  2.5
SO4:  716.2        HCO3:  189.8       Cl:  431.6       NO3:    0.0         F:  2.8
Sum Cations: 1345.5  Sum Anions: 1340.7  Cations/Anions: 1.00   Tot. P:  14.0
Tot. Al:   31.0    Ext. Al:  12.0    Fe:     1.0     Mn:     0.0    SiO2:  0.15
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-067   Name: PIONEER LAKE                               State: FL  Date: 04DEC84
Sample Type: REGULAR                  Latitude: 27-37'20"N    Longitude: 81-29'40"W
Elevation:   31   Surface Temp: 20.9  Stratified: MIXED        Site Depth:   9.1
Lake Area:     34 Watershed Area:     127 WA/LA:      3.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.7   Turbidity:   0.4      Color:   10
Closed pH: 7.31        Equil. pH: 7.44               ANC:  214.2          DOC:  3.04
Closed DIC:  2.64   Equil. DIC:  2.42    Meas. Cond: 244.0   Cal. Cond: 287.8
Ca:  575.8            Mg:  979.7          Na:  379.3          K: 245.7        NH4:  0.7
SO4: 1447.0        HCO3:  177.4        Cl:  505.0          NO3:  24.4           F: 10.7
Sum Cations: 2181.3  Sum Anions: 2164.8  Cations/Anions: 1.01   Tot. P:   5.0
Tot. Al:    21.0    Ext. Al:    8.0     Fe:     1.0      Mn:      0.0    SiO2:  0.76

ID: 382-072   Name: LAKE HENRY                                 State: FL  Date: 03DEC84
Sample Type: REGULAR                  Latitude: 27-19'22"N    Longitude: 81-23'00"W
Elevation:   23   Surface Temp: 20.1  Stratified: MIXED        Site Depth:   5.5
Lake Area:     25 Watershed Area:     129 WA/LA:      5.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.2   Turbidity:   1.3      Color:   25
Closed pH: 7.20        Equil. pH: 7.13               ANC:  109.7          DOC:  5.83
Closed DIC:  1.57   Equil. DIC:  1.38    Meas. Cond: 121.4   Cal. Cond: 126.1
Ca:  234.5            Mg:  342.9          Na:  323.6          K: 100.0        NH4:  1.8
SO4:  416.4        HCO3:   92.1        Cl:  428.8          NO3:   0.0           F:  2.9
Sum Cations: 1002.9  Sum Anions:  940.2  Cations/Anions: 1.07   Tot. P:  17.0
Tot. Al:    22.0    Ext. Al:    5.0     Fe:     2.0      Mn:      0.0    SiO2:  0.41

ID: 382-074   Name: LAKE BYRD                                  State: FL  Date: 05DEC84
Sample Type: REGULAR                  Latitude: 27-37'15"N    Longitude: 81-31'05"W
Elevation:   33   Surface Temp: 21.1  Stratified: MIXED        Site Depth:   9.1
Lake Area:     19 Watershed Area:      80 WA/LA:      4.2 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  6.3   Turbidity:   0.3      Color:   10
Closed pH: 7.16        Equil. pH: 7.42               ANC:  209.7          DOC:  2.61
Closed DIC:  2.94   Equil. DIC:  2.56    Meas. Cond: 276.0   Cal. Cond: 321.9
Ca:  806.4            Mg: 1016.7          Na:  394.5          K: 238.6        NH4:  0.8
SO4: 1492.8        HCO3:  178.0        Cl:  516.2          NO3: 217.8           F:  7.5
Sum Cations: 2457.1  Sum Anions: 2412.5  Cations/Anions: 1.02   Tot. P:   3.0
Tot. Al:    61.0    Ext. Al:   29.0     Fe:     1.0      Mn:      3.0    SiO2:  1.95

ID: 382-075   Name: LAKE PEARL                                 State: FL  Date: 02DEC84
Sample Type: REGULAR                  Latitude: 27-17'00"N    Longitude: 81-21'45"W
Elevation:   26   Surface Temp: 20.9  Stratified: MIXED        Site Depth:  12.2
Lake Area:     27 Watershed Area:      88 WA/LA:      3.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.5   Turbidity:   0.4      Color:    5
Closed pH: 6.58        Equil. pH: 6.81               ANC:   38.9          DOC:  2.96
Closed DIC:  0.78   Equil. DIC:  0.84    Meas. Cond: 105.8   Cal. Cond: 110.4
Ca:  258.2            Mg:  249.4          Na:  273.6          K:  71.9        NH4:  1.0
SO4:  393.5        HCO3:   33.8        Cl:  372.4          NO3:  15.5           F:  2.7
Sum Cations:  854.4  Sum Anions:  818.0  Cations/Anions: 1.04   Tot. P:   6.0
Tot. Al:    58.0    Ext. Al:    4.0     Fe:     0.0      Mn:      0.0    SiO2:  2.07

ID: 382-080   Name: BLUE LAKE                                  State: FL  Date: 03DEC84
Sample Type: REGULAR                  Latitude: 27-26'06"N    Longitude: 81-30'45"W
Elevation:   35   Surface Temp: 20.0  Stratified: MIXED        Site Depth:   1.5
Lake Area:     14 Watershed Area:     223 WA/LA:     16.4 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  1.3   Turbidity:   2.4      Color:   30
Closed pH: 5.35        Equil. pH: 5.71               ANC:   -3.0          DOC:  4.39
Closed DIC:  1.03   Equil. DIC:  0.66    Meas. Cond:  81.8   Cal. Cond:  85.6
Ca:  150.4            Mg:  168.9          Na:  317.5          K:  12.5        NH4:  0.9
SO4:  270.7        HCO3:    6.5        Cl:  363.9          NO3:   0.6           F:  1.6
Sum Cations:  653.0  Sum Anions:  643.2  Cations/Anions: 1.02   Tot. P:   8.0
Tot. Al:   145.0    Ext. Al:   31.0     Fe:    10.0      Mn:     11.0    SiO2:  0.13
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-081   Name: LITTLE RED WATER LAKE            State: FL  Date: 05DEC84
Sample Type: REGULAR             Latitude: 27-32'30"N   Longitude: 81-28'30"W
Elevation:   32   Surface Temp: 21.4  Stratified: MIXED     Site Depth:   3.7
Lake Area:     132 Watershed Area:   2214 WA/LA:     16.7 Hydro Type: DRAINAGE
Residence Time:  0.32  Secchi Depth:  1.3   Turbidity:   1.9    Color:    25
Closed pH: 6.17        Equil. pH: 6.33               ANC:   17.9        DOC:  5.57
Closed DIC:  0.25   Equil. DIC:  0.32    Meas. Cond:  66.3   Cal. Cond:  63.5
Ca:  138.4          Mg:  125.2        Na:  252.6         K:  24.0       NH4:  0.6
SO4:  173.6       HCO3:     6.5       Cl:  252.8       NO3:    1.9          F:  2.4
Sum Cations:  542.0  Sum Anions:  437.2  Cations/Anions: 1.24   Tot. P:  20.0
Tot. Al:  162.0    Ext. Al:   7.0    Fe:    12.0     Mn:     4.0    SiO2:  0.23

ID: 382-084   Name: PERSIMMON LAKE                   State: FL  Date: 04DEC84
Sample Type: REGULAR             Latitude: 27-21'17"N   Longitude: 81-24'20"W
Elevation:   21   Surface Temp: 19.9  Stratified: MIXED     Site Depth:   3.0
Lake Area:      14 Watershed Area:     65 WA/LA:      4.7 Hydro Type: DRAINAGE
Residence Time:  0.72  Secchi Depth:  0.4   Turbidity:  16.4    Color:    55
Closed pH: 7.26        Equil. pH: 8.40               ANC:  600.1        DOC: 10.09
Closed DIC:  7.92   Equil. DIC:  7.04    Meas. Cond: 251.0   Cal. Cond: 277.5
Ca:  691.6          Mg:  997.0        Na:  382.8         K: 185.6       NH4: 15.9
SO4:  759.9       HCO3:   523.2       Cl:  837.8       NO3:   16.9          F:  1.6
Sum Cations: 2272.9  Sum Anions: 2143.0  Cations/Anions: 1.06   Tot. P:  29.0
Tot. Al:   36.0    Ext. Al:  20.0    Fe:     0.0     Mn:     0.0    SiO2:  2.57

ID: 382-085   Name: (NO NAME)                        State: FL  Date: 03DEC84
Sample Type: REGULAR             Latitude: 27-25'55"N   Longitude: 81-30'00"W
Elevation:   36   Surface Temp: 20.6  Stratified: MIXED     Site Depth:   2.7
Lake Area:      23 Watershed Area:    223 WA/LA:      9.9 Hydro Type: DRAINAGE
Residence Time:  0.34  Secchi Depth:  3.4   Turbidity:   0.2    Color:     5
Closed pH: 4.42        Equil. pH: 4.39               ANC:  -46.1        DOC:  0.96
Closed DIC:  0.33   Equil. DIC:  0.21    Meas. Cond:  55.6   Cal. Cond:  63.6
Ca:   30.8          Mg:   70.3        Na:  175.7         K:   0.8       NH4:  0.4
SO4:  191.8       HCO3:     0.1       Cl:  227.7       NO3:    0.0          F:  1.4
Sum Cations:  324.8  Sum Anions:  421.0  Cations/Anions: 0.77   Tot. P:   0.0
Tot. Al:  455.0    Ext. Al: 446.0    Fe:     1.0     Mn:     4.0    SiO2:  0.18

ID: 382-087   Name: COWARD LAKE                      State: GA  Date: 13DEC84
Sample Type: REGULAR             Latitude: 30-39'27"N   Longitude: 82-10'12"W
Elevation:   37   Surface Temp: 13.0  Stratified: MIXED     Site Depth:   0.9
Lake Area:       8 Watershed Area:      * WA/LA:        *  Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.6   Turbidity:   0.6    Color:   300
Closed pH: 3.81        Equil. pH: 3.82               ANC: -209.1        DOC: 48.22
Closed DIC:  0.20   Equil. DIC:  0.25    Meas. Cond:  72.9   Cal. Cond:  74.0
Ca:    9.3          Mg:   24.9        Na:  124.8         K:   0.2       NH4:  1.1
SO4:   10.5       HCO3:     0.1       Cl:  140.8       NO3:    0.5          F:  0.7
Sum Cations:  315.2  Sum Anions:  152.5  Cations/Anions: 2.07   Tot. P:   9.0
Tot. Al:   76.0    Ext. Al:  17.0    Fe:   191.0     Mn:     4.0    SiO2:  0.64

ID: 382-088   Name: LAKE CREWS                       State: FL  Date: 03DEC84
Sample Type: REGULAR             Latitude: 27-17'45"N   Longitude: 81-26'10"W
Elevation:   36   Surface Temp: 20.2  Stratified: MIXED     Site Depth:   2.7
Lake Area:      24 Watershed Area:    158 WA/LA:      6.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.6   Turbidity:   1.9    Color:    35
Closed pH: 5.95        Equil. pH: 5.77               ANC:    6.5        DOC:  5.29
Closed DIC:  0.28   Equil. DIC:  0.32    Meas. Cond:  63.3   Cal. Cond:  63.4
Ca:  100.3          Mg:  100.5        Na:  278.4         K:  17.5       NH4:  0.8
SO4:  136.0       HCO3:     8.5       Cl:  327.2       NO3:    0.2          F:  1.6
Sum Cations:  499.0  Sum Anions:  473.5  Cations/Anions: 1.05   Tot. P:  15.0
Tot. Al:   95.0    Ext. Al:  30.0    Fe:    14.0     Mn:     2.0    SiO2:  0.44
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-089   Name: LAKE PLACID                        State: FL  Date: 02DEC84
Sample Type: REGULAR             Latitude: 27-14'30"N   Longitude: 81-22'15"W
Elevation:   28  Surface Temp: 19.9  Stratified: MIXED     Site Depth:   14.0
Lake Area:   1352 Watershed Area:      * WA/LA:      * Hydro Type: DRAINAGE
Residence Time:    *    Secchi Depth:  1.9  Turbidity:   3.8     Color:    10
Closed pH: 8.30        Equil. pH: 7.34            ANC:  107.0          DOC:  3.10
Closed DIC:  1.07   Equil. DIC:  1.10   Meas. Cond:  84.5  Cal. Cond:  79.5
Ca:  179.6          Mg:  208.9        Na:  253.2          K:  54.2      NH4:  0.5
SO4:  141.0       HCO3:   90.4       Cl:  335.7       NO3:   0.0         F:  1.6
Sum Cations:  696.5  Sum Anions:  568.8  Cations/Anions: 1.22  Tot. P:  13.0
Tot. Al:   31.0   Ext. Al:  12.0   Fe:     2.0   Mn:     0.0   SiO2:  0.62

ID: 382-090   Name: LITTLE BONNET LAKE                 State: FL  Date: 05DEC84
Sample Type: REGULAR             Latitude: 27-33'35"N   Longitude: 81-28'35"W
Elevation:   30  Surface Temp: 21.5  Stratified: MIXED     Site Depth:    3.4
Lake Area:     34 Watershed Area:   2176 WA/LA:   64.8 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  0.4  Turbidity:  15.2     Color:    45
Closed pH: 7.91        Equil. pH: 8.33            ANC:  495.3          DOC: 10.07
Closed DIC:  5.58   Equil. DIC:  6.05   Meas. Cond: 235.0  Cal. Cond: 257.6
Ca:  592.3          Mg:  925.4        Na:  405.5          K: 166.7      NH4: 10.1
SO4:  895.3       HCO3:  457.7       Cl:  612.2       NO3:  15.0         F:  3.3
Sum Cations: 2100.2  Sum Anions: 1984.7  Cations/Anions: 1.06  Tot. P:  25.0
Tot. Al:   34.0   Ext. Al:  11.0   Fe:     0.0   Mn:     2.0   SiO2:  2.16

ID: 382-091   Name: CENTER LAKE MELLIE                 State: FL  Date: 04DEC84
Sample Type: REGULAR             Latitude: 27-21'08"N   Longitude: 81-22'45"W
Elevation:   22  Surface Temp: 21.5  Stratified: MIXED     Site Depth:    9.1
Lake Area:     17 Watershed Area:    225 WA/LA:   13.4 Hydro Type: DRAINAGE
Residence Time:  1.39  Secchi Depth:  1.6  Turbidity:   3.1     Color:    15
Closed pH: 7.99        Equil. pH: 8.05            ANC:  507.2          DOC:  4.57
Closed DIC:  5.94   Equil. DIC:  5.28   Meas. Cond: 318.0  Cal. Cond: 388.7
Ca:  929.6          Mg: 1144.2        Na:  495.9          K: 363.1      NH4:  0.2
SO4: 1792.6       HCO3:  408.3       Cl:  770.1       NO3;   8.5         F:  2.8
Sum Cations: 2933.1  Sum Anions: 2983.5  Cations/Anions: 0.98  Tot. P:   8.0
Tot. Al:   23.0   Ext. Al:  10.0   Fe:     0.0   Mn:     0.0   SiO2:  0.79

ID: 382-092   Name: LAKE JACKSON                       State: FL  Date: 03DEC84
Sample Type: REGULAR             Latitude: 27-29'15"N   Longitude: 81-27'30"W
Elevation:   31  Surface Temp: 20.9  Stratified: MIXED     Site Depth:    6.7
Lake Area:   1297 Watershed Area:   3204 WA/LA:    2.5 Hydro Type: DRAINAGE
Residence Time:  1.72  Secchi Depth:  2.9  Turbidity:   0.7     Color:    20
Closed pH: 6.54        Equil. pH: 5.86            ANC:    3.2          DOC:  2.94
Closed DIC:  0.16   Equil. DIC:  0.22   Meas. Cond: 103.4  Cal. Cond: 108.6
Ca:  180.8          Mg:  230.4        Na:  361.9          K:  60.6      NH4:  0.7
SO4:  389.3       HCO3:    9.1       Cl:  406.2       NO3:   0.0         F:  3.0
Sum Cations:  835.2  Sum Anions:  807.6  Cations/Anions: 1.03  Tot. P:  12.0
Tot. Al:   35.0   Ext. Al:   4.0   Fe:     5.0   Mn:     8.0   SiO2:  0.87

ID: 382-093   Name: GANNET LAKE                        State: GA  Date: 13DEC84
Sample Type: REGULAR             Latitude: 30-39'40"N   Longitude: 82-14'40"W
Elevation:   37  Surface Temp: 16.6  Stratified: MIXED     Site Depth:    0.9
Lake Area:     11 Watershed Area:      * WA/LA:      * Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.6  Turbidity:   0.9     Color:   225
Closed pH: 3.86        Equil. pH: 3.85            ANC: -178.9          DOC: 43.02
Closed DIC:  0.69   Equil. DIC:  0.31   Meas. Cond:  76.6  Cal. Cond:  75.9
Ca:   25.4          Mg:   38.3        Na:  162.0          K:   0.4      NH4:  1.7
SO4:    4.1       HCO3:    0.1       Cl:  202.3       NO3:   0.5         F:  0.7
Sum Cations:  366.0  Sum Anions:  207.7  Cations/Anions: 1.76  Tot. P:  10.0
Tot. Al:   64.0   Ext. Al:   9.0   Fe:   326.0   Mn:     8.0   SiO2:  1.47
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-089   Name: LAKE PLACID                    State: FL  Date: 02DEC84
Sample Type: REGULAR             Latitude: 27-14'30"N   Longitude: 81-22'15"W
Elevation:    28  Surface Temp: 19.9  Stratified: MIXED      Site Depth:  14.0
Lake Area:   1352 Watershed Area:      * WA/LA:         *  Hydro Type: DRAINAGE
Residence Time:   *    Secchi Depth:  1.9   Turbidity:   3.8      Color:    10
Closed pH: 8.30       Equil. pH: 7.34               ANC:  107.0         DOC:  3.10
Closed DIC:  1.07   Equil. DIC:  1.10    Meas. Cond:  84.5   Cal. Cond:  79.5
Ca:  179.6            Mg:  208.9         Na:  253.2        K:  54.2      NH4:   0.5
SO4:  141.0        HCO3:    90.4       Cl:  335.7      NO3:   0.0           F:   1.6
Sum Cations:  696.5  Sum Anions:  568.8  Cations/Anions: 1.22   Tot. P:  13.0
Tot. Al:    31.0    Ext. Al:  12.0    Fe:       2.0     Mn:      0.0    SiO2:  0.62

ID: 382-090   Name: LITTLE BONNET LAKE             State: FL  Date: 05DEC84
Sample Type: REGULAR             Latitude: 27-33'35"N   Longitude: 81-28'35"W
Elevation:    30  Surface Temp: 21.5  Stratified: MIXED      Site Depth:   3.4
Lake Area:      34 Watershed Area:   2176 WA/LA:       64.8 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  0.4   Turbidity:  15.2      Color:    45
Closed pH: 7.91       Equil. pH: 8.33               ANC:  495.3         DOC: 10.07
Closed DIC:  5.58   Equil. DIC:  6.05    Meas. Cond: 235.0   Cal. Cond: 257.6
Ca:  592.3            Mg:  925.4         Na:  405.5        K: 166.7      NH4:  10.1
SO4:  895.3        HCO3:  457.7        Cl:  612.2      NO3:  15.0           F:   3.3
Sum Cations: 2100.2  Sum Anions: 1984.7  Cations/Anions: 1.06   Tot. P:  25.0
Tot. Al:    34.0    Ext. Al:  11.0    Fe:       0.0     Mn:      2.0    SiO2:  2.16

ID: 382-091   Name: CENTER LAKE NELLIE             State: FL  Date: 04DEC84
Sample Type: REGULAR             Latitude: 27-21'08"N   Longitude: 81-22'45"W
Elevation:    22  Surface Temp: 21.5  Stratified: MIXED      Site Depth:   9.1
Lake Area:      17 Watershed Area:    225 WA/LA:       13.4 Hydro Type: DRAINAGE
Residence Time:  1.39  Secchi Depth:  1.6   Turbidity:   3.1      Color:    15
Closed pH: 7.99       Equil. pH: 8.05               ANC:  507.2         DOC:  4.57
Closed DIC:  5.94   Equil. DIC:  5.28    Meas. Cond: 318.0   Cal. Cond: 388.7
Ca:  929.6            Mg: 1144.2         Na:  495.9        K: 363.1      NH4:   0.2
SO4: 1792.6        HCO3:  408.3        Cl:  770.1      NO3:   8.5           F:   2.8
Sum Cations: 2933.1  Sum Anions: 2983.5  Cations/Anions: 0.98   Tot. P:   8.0
Tot. Al:    23.0    Ext. Al:  10.0    Fe:       0.0     Mn:      0.0    SiO2:  0.79

ID: 382-092   Name: LAKE JACKSON                   State: FL  Date: 03DEC84
Sample Type: REGULAR             Latitude: 27-29'15"N   Longitude: 81-27'30"W
Elevation:    31  Surface Temp: 20.9  Stratified: MIXED      Site Depth:   6.7
Lake Area:    1297 Watershed Area:   3204 WA/LA:        2.5 Hydro Type: DRAINAGE
Residence Time:  1.72  Secchi Depth:  2.9   Turbidity:   0.7      Color:    20
Closed pH: 6.54       Equil. pH: 5.86               ANC:    3.2         DOC:  2.94
Closed DIC:  0.16   Equil. DIC:  0.22    Meas. Cond: 103.4   Cal. Cond: 108.6
Ca:  180.8            Mg:  230.4         Na:  361.9        K:  60.6      NH4:   0.7
SO4:  389.3        HCO3:    9.1        Cl:  406.2      NO3:   0.0           F:   3.0
Sum Cations:  835.2  Sum Anions:  807.6  Cations/Anions: 1.03   Tot. P:  12.0
Tot. Al:    35.0    Ext. Al:   4.0    Fe:       5.0     Mn:      8.0    SiO2:  0.87

ID: 382-093   Name: GANNET LAKE                    State: GA  Date: 13DEC84
Sample Type: REGULAR             Latitude: 30-39'40"N   Longitude: 82-14'40"W
Elevation:    37  Surface Temp: 16.6  Stratified: MIXED      Site Depth:   0.9
Lake Area:      11 Watershed Area:      * WA/LA:         *  Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.6   Turbidity:   0.9      Color:   225
Closed pH: 3.86       Equil. pH: 3.85               ANC: -178.9         DOC: 43.02
Closed DIC:  0.69   Equil. DIC:  0.31    Meas. Cond:  76.6   Cal. Cond:  75.9
Ca:   25.4            Mg:   38.3         Na:  162.0        K:   0.4      NH4:   1.7
SO4:    4.1        HCO3:    0.1        Cl:  202.3      NO3:   0.5           F:   0.7
Sum Cations:  366.0  Sum Anions:  207.7  Cations/Anions: 1.76   Tot. P:  10.0
Tot. Al:    64.0    Ext. Al:   9.0    Fe:     326.0     Mn:      8.0    SiO2:  1.47
```

(continued)

TABLE 3-1 (continued)

```
ID: 3B2-094   Name: DINNER LAKE                        State: FL  Date: 05DEC84
Sample Type: REGULAR            Latitude: 27-30'55"N    Longitude: 81-26'30"W
Elevation:   31   Surface Temp: 21.0  Stratified: MIXED     Site Depth:   8.5
Lake Area:     152 Watershed Area:     549 WA/LA:      3.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.7   Turbidity:   1.6      Color:   15
Closed pH: 7.87       Equil. pH: 8.02               ANC:  793.7        DOC:  2.81
Closed DIC:  9.79   Equil. DIC:  9.53    Meas. Cond: 221.5   Cal. Cond: 248.2
Ca:  818.1          Mg:  642.8       Na:  435.0          K: 147.0      NH4:  0.5
SO4:  762.0       HCO3:  737.7      Cl:  490.9        NO3:  13.7         F:  6.0
Sum Cations: 2043.5  Sum Anions: 2014.6  Cations/Anions: 1.01   Tot. P:   8.0
Tot. Al:   38.0    Ext. Al:  10.5    Fe:     0.5     Mn:     2.0    SiO2:  0.49

ID: 3B2-096   Name: DEER LAKE                          State: FL  Date: 05DEC84
Sample Type: REGULAR            Latitude: 27-36'34"N    Longitude: 81-28'30"W
Elevation:   29   Surface Temp: 21.6  Stratified: MIXED     Site Depth:   6.1
Lake Area:      11 Watershed Area:      93 WA/LA:      8.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.4   Turbidity:   0.6      Color:   20
Closed pH: 7.34       Equil. pH: 7.81               ANC:  486.9        DOC:  3.27
Closed DIC:  5.56   Equil. DIC:  5.20    Meas. Cond: 158.0   Cal. Cond: 175.1
Ca:  485.5          Mg:  575.1       Na:  184.4          K: 166.5      NH4:  0.6
SO4:  680.8       HCO3:  362.5      Cl:  296.2        NO3:  11.8         F:  1.6
Sum Cations: 1412.1  Sum Anions: 1353.8  Cations/Anions: 1.04   Tot. P:  12.0
Tot. Al:   21.0    Ext. Al:   3.0    Fe:     0.0     Mn:     3.0    SiO2:  0.73

ID: 3B2-099   Name: LAKE LOTELA                        State: FL  Date: 05DEC84
Sample Type: REGULAR            Latitude: 27-34'30"N    Longitude: 81-29'00"W
Elevation:   32   Surface Temp: 20.8  Stratified: MIXED     Site Depth:   6.4
Lake Area:     323 Watershed Area:    2680 WA/LA:      8.3 Hydro Type: DRAINAGE
Residence Time:  0.91  Secchi Depth:  2.9   Turbidity:   0.7      Color:   10
Closed pH: 7.82       Equil. pH: 7.78               ANC:  403.1        DOC:  3.38
Closed DIC:  5.19   Equil. DIC:  4.60    Meas. Cond: 139.0   Cal. Cond: 148.3
Ca:  318.4          Mg:  506.8       Na:  356.8          K:  72.9      NH4:  0.6
SO4:  456.0       HCO3:  334.9      Cl:  361.1        NO3:   0.3         F:  4.5
Sum Cations: 1255.5  Sum Anions: 1157.3  Cations/Anions: 1.08   Tot. P:  10.0
Tot. Al:   33.0    Ext. Al:   9.0    Fe:     0.0     Mn:     2.0    SiO2:  0.35

ID: 3B2-100   Name: MAUL HAMMOCK LAKE                  State: GA  Date: 13DEC84
Sample Type: REGULAR            Latitude: 31-00'55"N    Longitude: 82-15'28"W
Elevation:   37   Surface Temp: 13.6  Stratified: MIXED     Site Depth:   0.9
Lake Area:       5 Watershed Area:       * WA/LA:        *  Hydro Type: DRAINAGE
Residence Time:   *    Secchi Depth:  0.6   Turbidity:   1.2      Color:  200
Closed pH: 4.04       Equil. pH: 3.99               ANC: -133.1        DOC: 35.68
Closed DIC:  1.41   Equil. DIC:  0.26    Meas. Cond:  59.4   Cal. Cond:  62.7
Ca:   19.7          Mg:   48.0       Na:  157.2          K:   1.2      NH4:  1.0
SO4:    6.9       HCO3:    0.1      Cl:  179.7        NO3:   0.5         F:  0.7
Sum Cations:  331.8  Sum Anions:  187.9  Cations/Anions: 1.77   Tot. P:  10.0
Tot. Al:  116.0    Ext. Al:  25.0    Fe:   436.0     Mn:     8.0    SiO2:  1.41

ID: 3B2-101   Name: HOG LAKE                           State: FL  Date: 05DEC84
Sample Type: REGULAR            Latitude: 27-31'47"N    Longitude: 81-31'05"W
Elevation:   49   Surface Temp: 21.6  Stratified: MIXED     Site Depth:   1.5
Lake Area:      12 Watershed Area:      41 WA/LA:      3.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.1   Turbidity:   4.0      Color:   45
Closed pH: 7.76       Equil. pH: 8.63               ANC: 1901.8        DOC: 12.03
Closed DIC: 21.77   Equil. DIC: 22.57    Meas. Cond: 215.0   Cal. Cond: 230.2
Ca: 1071.4          Mg:  847.3       Na:  283.6          K:  41.9      NH4:  7.9
SO4:   78.5       HCO3: 1785.4      Cl:  209.6        NO3:   3.6         F:  7.7
Sum Cations: 2252.1  Sum Anions: 2103.6  Cations/Anions: 1.07   Tot. P:  14.0
Tot. Al:  146.0    Ext. Al:  42.0    Fe:    17.0     Mn:     1.0    SiO2:  0.23
```

(continued)

TABLE 3-1 (continued)

```
ID: 382-103   Name: DOUBLE LKS.(NORTH)                    State: GA  Date: 13DEC84
Sample Type: REGULAR            Latitude: 30-59'12"N    Longitude: 82-11'35"W
Elevation:   38   Surface Temp: 12.4  Stratified: MIXED     Site Depth:   1.0
Lake Area:     6 Watershed Area:      * WA/LA:       *  Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  0.7  Turbidity:   0.5      Color:  175
Closed pH: 4.18       Equil. pH: 4.14               ANC:  -87.0         DOC: 31.08
Closed DIC:  2.08   Equil. DIC:  0.59   Meas. Cond:  46.3   Cal. Cond:  48.0
Ca:   17.9          Mg:   40.7        Na:  141.5           K:    1.9        NH4:   0.7
SO4:    3.8       HCO3:    0.2       Cl:  147.5        NO3:    0.2           F:   0.7
Sum Cations:  276.8  Sum Anions:   152.5  Cations/Anions: 1.82   Tot. P:  17.0
Tot. Al:  128.0    Ext. Al:  32.0    Fe:  455.0      Mn:     8.0    SiO2:  3.55

ID: 382-105   Name: LAKE SIMMONS                          State: FL  Date: 04DEC84
Sample Type: REGULAR            Latitude: 27-20'18"N    Longitude: 81-22'33"W
Elevation:   22   Surface Temp: 21.7  Stratified: MIXED     Site Depth:  14.6
Lake Area:     8 Watershed Area:    137 WA/LA:     16.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  5.7  Turbidity:   0.2      Color:    5
Closed pH: 7.76       Equil. pH: 8.19               ANC:  528.6         DOC:  1.04
Closed DIC:  6.27   Equil. DIC:  5.74   Meas. Cond: 367.0   Cal. Cond: 444.0
Ca: 1188.6          Mg: 1554.7        Na:  411.1           K: 253.7        NH4:   0.4
SO4: 1634.4       HCO3:  445.8       Cl:  857.6        NO3: 493.6           F:   3.6
Sum Cations: 3408.5  Sum Anions: 3436.7  Cations/Anions: 0.99   Tot. P:   2.0
Tot. Al:  109.0    Ext. Al:  83.0    Fe:    0.0      Mn:     0.0    SiO2:  1.62

ID: 382-106   Name: LAKE ANOKA                            State: FL  Date: 05DEC84
Sample Type: REGULAR            Latitude: 27-34'50"N    Longitude: 81-30'45"W
Elevation:   38   Surface Temp: 21.1  Stratified: MIXED     Site Depth:  13.7
Lake Area:    18 Watershed Area:    412 WA/LA:     23.0 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  4.9  Turbidity:   0.4      Color:   10
Closed pH: 7.45       Equil. pH: 8.21               ANC:  508.8         DOC:  2.75
Closed DIC:  6.82   Equil. DIC:  6.23   Meas. Cond: 138.0   Cal. Cond: 146.8
Ca:  704.1          Mg:  307.7        Na:  145.3           K:  91.5        NH4:   7.4
SO4:  453.9       HCO3:  469.2       Cl:  208.2        NO3:  10.2           F:   3.2
Sum Cations: 1256.1  Sum Anions: 1146.1  Cations/Anions: 1.10   Tot. P:   6.0
Tot. Al:   34.0    Ext. Al:  15.0    Fe:    4.0      Mn:     3.0    SiO2:  1.19

ID: 382-107   Name: SILVER LAKE                           State: FL  Date: 05DEC84
Sample Type: REGULAR            Latitude: 27-33'58"N    Longitude: 81-31'25"W
Elevation:   42   Surface Temp: 20.9  Stratified: MIXED     Site Depth:   7.6
Lake Area:     8 Watershed Area:     88 WA/LA:     11.3 Hydro Type: DRAINAGE
Residence Time:  0.87  Secchi Depth:  4.8  Turbidity:   0.3      Color:    5
Closed pH: 5.03       Equil. pH: 4.97               ANC:  -15.4         DOC:  0.88
Closed DIC:  0.56   Equil. DIC:  0.41   Meas. Cond:  36.4   Cal. Cond:  34.5
Ca:   54.0          Mg:   71.2        Na:  120.2           K:  11.4        NH4:   0.1
SO4:   80.4       HCO3:    0.8       Cl:  129.5        NO3:    3.0           F:   0.4
Sum Cations:  268.7  Sum Anions:   214.0  Cations/Anions: 1.26   Tot. P:   4.0
Tot. Al:  158.0    Ext. Al:   7.0    Fe:    3.0      Mn:     3.0    SiO2:  0.98

ID: 382-111   Name: LAKE ISIS                             State: FL  Date: 05DEC84
Sample Type: REGULAR            Latitude: 27-36'45"N    Longitude: 81-30'40"W
Elevation:   35   Surface Temp: 21.3  Stratified: MIXED     Site Depth:  13.4
Lake Area:    21 Watershed Area:    215 WA/LA:     10.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  6.3  Turbidity:   0.6      Color:    5
Closed pH: 7.45       Equil. pH: 7.52               ANC:  322.8         DOC:  1.00
Closed DIC:  3.89   Equil. DIC:  3.76   Meas. Cond: 209.0   Cal. Cond: 241.1
Ca:  666.7          Mg:  772.3        Na:  274.9           K: 140.9        NH4:   0.6
SO4:  941.1       HCO3:  294.7       Cl:  392.1        NO3: 243.6           F:   7.9
Sum Cations: 1855.3  Sum Anions: 1882.6  Cations/Anions: 0.99   Tot. P:   2.0
Tot. Al:   52.0    Ext. Al:  32.0    Fe:    0.0      Mn:     3.0    SiO2:  1.43
```

(continued)

TABLE 3-1 (continued)

```
ID: 302-113   Name: LAKE RUTH                        State: FL  Date: 03DEC84
Sample Type: REGULAR           Latitude: 27-25'45"N    Longitude: 81-27'30"W
Elevation:    28   Surface Temp: 20.0  Stratified: MIXED      Site Depth:   6.4
Lake Area:      33 Watershed Area:     80 WA/LA:      2.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.6  Turbidity:   1.3      Color:   65
Closed pH: 5.12        Equil. pH: 4.99             ANC:   -9.8        DOC:  5.81
Closed DIC:  0.44   Equil. DIC:  0.38   Meas. Cond:  49.7   Cal. Cond:  50.6
Ca:   90.9          Mg:    79.0       Na:   174.9          K:   18.8      NH4:   1.0
SO4:  140.1       HCO3:     1.1       Cl:   202.8        NO3:    1.2         F:   2.4
Sum Cations:  376.4  Sum Anions:  347.6  Cations/Anions: 1.08   Tot. P:  35.0
Tot. Al:  115.0    Ext. Al:  34.0    Fe:    55.0       Mn:     4.0     SiO2:  0.67

ID: 383-001   Name: (NO NAME)                        State: FL  Date: 14DEC84
Sample Type: REGULAR           Latitude: 30-33'18"N    Longitude: 84-21'17"W
Elevation:    38   Surface Temp: 16.4  Stratified: MIXED      Site Depth:   0.9
Lake Area:       6 Watershed Area:     31 WA/LA:      4.8 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  0.6  Turbidity:   9.6      Color:  150
Closed pH: 7.17        Equil. pH: 8.46             ANC: 1783.4        DOC: 18.13
Closed DIC: 22.40   Equil. DIC: 20.35   Meas. Cond: 198.0   Cal. Cond: 217.1
Ca: 1006.0          Mg:   793.6       Na:   190.6          K:  121.3      NH4:   1.2
SO4:   38.3       HCO3:  1727.1       Cl:   202.0        NO3:    0.0         F:   5.6
Sum Cations: 2112.7  Sum Anions: 1987.4  Cations/Anions: 1.06   Tot. P: 202.0
Tot. Al:   75.0    Ext. Al:   0.0    Fe:  2638.0       Mn:   149.0     SiO2:  6.40

ID: 383-002   Name: LAKE HIAWATHA                    State: FL  Date: 14DEC84
Sample Type: REGULAR           Latitude: 30-24'47"N    Longitude: 84-21'00"W
Elevation:    11   Surface Temp: 15.7  Stratified: MIXED      Site Depth:   0.9
Lake Area:      17 Watershed Area:   2867 WA/LA:    172.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.9  Turbidity:   0.7      Color:  100
Closed pH: 4.64        Equil. pH: 4.61             ANC:  -28.9        DOC: 11.34
Closed DIC:  0.72   Equil. DIC:  0.31   Meas. Cond:  25.1   Cal. Cond:  26.3
Ca:   40.5          Mg:    29.7       Na:    80.3          K:    3.8      NH4:   1.0
SO4:   27.5       HCO3:     0.4       Cl:    96.8        NO3:    0.9         F:   0.6
Sum Cations:  178.7  Sum Anions:  126.2  Cations/Anions: 1.42   Tot. P:  11.0
Tot. Al:  196.0    Ext. Al:  83.0    Fe:   188.0       Mn:    17.0     SiO2:  0.07

ID: 383-006   Name: MATTHIS LAKE                     State: FL  Date: 13DEC84
Sample Type: REGULAR           Latitude: 29-47'32"N    Longitude: 83-00'36"W
Elevation:    17   Surface Temp: 14.8  Stratified: MIXED      Site Depth:   1.5
Lake Area:      18 Watershed Area:     57 WA/LA:      3.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.0  Turbidity:   0.6      Color:   20
Closed pH: 8.04        Equil. pH: 7.94             ANC:  578.1        DOC:  7.89
Closed DIC:  6.26   Equil. DIC:  5.84   Meas. Cond:  81.1   Cal. Cond:  83.1
Ca:  646.7          Mg:    79.0       Na:    91.1          K:    0.1      NH4:   0.8
SO4:   60.2       HCO3:   494.6       Cl:   114.3        NO3:    0.5         F:   1.2
Sum Cations:  817.8  Sum Anions:  673.2  Cations/Anions: 1.21   Tot. P:   7.0
Tot. Al:   45.0    Ext. Al:  20.0    Fe:    20.0       Mn:     3.0     SiO2:  0.09

ID: 383-010   Name: GREEN POND                       State: FL  Date: 11DEC84
Sample Type: REGULAR           Latitude: 29-33'13"N    Longitude: 82-02'13"W
Elevation:    27   Surface Temp: 16.2  Stratified: MIXED      Site Depth:   5.8
Lake Area:      12 Watershed Area:     54 WA/LA:      4.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.9  Turbidity:   1.0      Color:    5
Closed pH: 5.84        Equil. pH: 5.83             ANC:   -4.7        DOC:  0.63
Closed DIC:  0.40   Equil. DIC:  0.26   Meas. Cond:  33.1   Cal. Cond:  32.9
Ca:   34.6          Mg:    55.4       Na:   157.0          K:    4.6      NH4:   0.4
SO4:   68.9       HCO3:     5.6       Cl:   176.6        NO3:    1.3         F:   0.4
Sum Cations:  253.2  Sum Anions:  252.8  Cations/Anions: 1.00   Tot. P:   5.0
Tot. Al:  144.0    Ext. Al:   0.0    Fe:     1.0       Mn:     0.0     SiO2:  0.20
```

(continued)

TABLE 3-1 (continued)

```
ID: 383-013   Name: LAKE LOU                          State: FL  Date: 10DEC84
Sample Type: REGULAR           Latitude: 29-13'57"N    Longitude: 81-51'17"W
Elevation:   14   Surface Temp: 16.0  Stratified: MIXED     Site Depth:   4.6
Lake Area:     46 Watershed Area:   1696 WA/LA:    37.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.3  Turbidity:   1.8     Color:  105
Closed pH: 6.38      Equil. pH: 6.56            ANC:   60.8         DOC: 13.57
Closed DIC:  0.61   Equil. DIC:  0.60    Meas. Cond:  38.8   Cal. Cond:  35.8
Ca:  140.0         Mg:   93.0       Na:  126.1        K:   9.6       NH4:  1.1
SO4:   41.4      HCO3:   22.8       Cl:  141.0      NO3:   1.0         F:  1.2
Sum Cations:  370.2  Sum Anions:  207.5  Cations/Anions: 1.78  Tot. P:  21.0
Tot. Al:   30.0   Ext. Al:   0.0   Fe:    42.0     Mn:     3.0   SiO2:  0.85
```

```
ID: 383-017   Name: TSALA APOPKA LAKE                 State: FL  Date: 10DEC84
Sample Type: REGULAR           Latitude: 28-55'58"N    Longitude: 82-22'25"W
Elevation:   13   Surface Temp: 15.0  Stratified: MIXED     Site Depth:   3.7
Lake Area:   6087 Watershed Area:      * WA/LA:       *  Hydro Type: DRAINAGE
Residence Time:   *    Secchi Depth:  3.4  Turbidity:   0.6     Color:   30
Closed pH: 7.38      Equil. pH: 8.26            ANC:  932.5         DOC: 10.37
Closed DIC: 11.15   Equil. DIC:  9.78    Meas. Cond: 126.6   Cal. Cond: 128.0
Ca:  934.6         Mg:  125.0       Na:  228.4        K:   5.0       NH4:  0.9
SO4:   17.1      HCO3:  780.5       Cl:  223.7      NO3:   0.0         F:  3.8
Sum Cations: 1293.9  Sum Anions: 1033.4  Cations/Anions: 1.25  Tot. P:   8.0
Tot. Al:    9.0   Ext. Al:   0.0   Fe:    17.0     Mn:     3.0   SiO2:  3.72
```

```
ID: 383-023   Name: MOON LAKE                         State: FL  Date: 10DEC84
Sample Type: REGULAR           Latitude: 28-42'55"N    Longitude: 82-16'33"W
Elevation:   13   Surface Temp: 14.3  Stratified: MIXED     Site Depth:   2.1
Lake Area:     29 Watershed Area:    352 WA/LA:    12.2 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.5  Turbidity:   1.2     Color:   50
Closed pH: 7.25      Equil. pH: 7.97            ANC: 1015.4         DOC: 14.02
Closed DIC: 10.40   Equil. DIC:  8.97    Meas. Cond: 120.5   Cal. Cond: 123.4
Ca:  861.3         Mg:  123.1       Na:  239.7        K:  15.3       NH4:  1.3
SO4:    4.8      HCO3:  688.1       Cl:  273.1      NO3:   0.0         F:  3.7
Sum Cations: 1240.6  Sum Anions:  975.8  Cations/Anions: 1.27  Tot. P:  22.0
Tot. Al:   20.0   Ext. Al:   0.0   Fe:    36.0     Mn:     2.0   SiO2:  3.80
```

```
ID: 383-024   Name: HOLTS LAKE                        State: FL  Date: 09DEC84
Sample Type: REGULAR           Latitude: 28-41'11"N    Longitude: 81-33'23"W
Elevation:   32   Surface Temp: 16.3  Stratified: MIXED     Site Depth:   7.0
Lake Area:     13 Watershed Area:     73 WA/LA:     5.8 Hydro Type: DRAINAGE
Residence Time: 1.76  Secchi Depth:  1.1  Turbidity:   4.9     Color:   55
Closed pH: 7.55      Equil. pH: 8.66            ANC: 2065.3         DOC: 10.44
Closed DIC: 25.71   Equil. DIC: 25.41    Meas. Cond: 309.0   Cal. Cond: 334.2
Ca: 1021.0         Mg:  554.3       Na: 1241.1        K: 236.7       NH4: 18.0
SO4:  188.8      HCO3: 2142.2       Cl:  646.0      NO3:  15.1         F:  7.5
Sum Cations: 3071.0  Sum Anions: 3028.6  Cations/Anions: 1.01  Tot. P:  58.0
Tot. Al:   99.0   Ext. Al:  25.0   Fe:     9.0     Mn:     5.0   SiO2:  0.31
```

```
ID: 383-029   Name: LAKE SHERWOOD                     State: FL  Date: 08DEC84
Sample Type: REGULAR           Latitude: 28-32'59"N    Longitude: 81-29'57"W
Elevation:   23   Surface Temp: 16.9  Stratified: MIXED     Site Depth:   1.5
Lake Area:     71 Watershed Area:    316 WA/LA:     4.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.8  Turbidity:   0.6     Color:   45
Closed pH: 7.48      Equil. pH: 8.62            ANC: 1535.6         DOC:  9.25
Closed DIC: 18.98   Equil. DIC: 18.37    Meas. Cond: 222.0   Cal. Cond: 236.3
Ca: 1437.6         Mg:  502.1       Na:  231.0        K:  84.7       NH4:  3.5
SO4:  272.7      HCO3: 1349.9       Cl:  299.0      NO3:   6.8         F:  3.7
Sum Cations: 2259.0  Sum Anions: 1943.4  Cations/Anions: 1.16  Tot. P:  17.0
Tot. Al:   11.0   Ext. Al:   0.0   Fe:    26.0     Mn:     3.0   SiO2:  0.59
```

(continued)

TABLE 3-1 (continued)

```
ID: 383-032   Name: GOOSE LAKE                            State: FL  Date: 11DEC84
Sample Type: REGULAR            Latitude: 28-21'23"N    Longitude: 82-28'08"W
Elevation:   23   Surface Temp: 15.3  Stratified: MIXED      Site Depth:   1.8
Lake Area:      14 Watershed Area:      36 WA/LA:      2.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.0  Turbidity:   0.9      Color:   45
Closed pH: 6.41       Equil. pH: 6.80            ANC:   77.3          DOC:  9.21
Closed DIC:  1.23   Equil. DIC:  0.85    Meas. Cond:  38.8   Cal. Cond:  38.4
Ca:  171.8          Mg:   86.9       Na:   83.5          K:   5.9       NH4:  0.9
SO4:   102.9       HCO3:   49.1       Cl:  108.0       NO3:   0.3         F:  2.7
Sum Cations:  349.1  Sum Anions:  263.1  Cations/Anions: 1.33   Tot. P:  11.0
Tot. Al:   43.0    Ext. Al:   6.0    Fe:     7.0     Mn:     1.0    SiO2:  0.04


ID: 383-052   Name: LAKE HELENE                           State: FL  Date: 05DEC84
Sample Type: REGULAR            Latitude: 28-10'24"N    Longitude: 81-48'13"W
Elevation:   43   Surface Temp: 20.7  Stratified: MIXED      Site Depth:   3.9
Lake Area:      20 Watershed Area:      70 WA/LA:      3.5 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  2.5  Turbidity:   0.9      Color:   20
Closed pH: 7.32       Equil. pH: 7.51            ANC:  288.8          DOC:  7.03
Closed DIC:  2.83   Equil. DIC:  2.84    Meas. Cond: 174.0   Cal. Cond: 183.8
Ca:  232.6          Mg:  722.2       Na:  424.1          K: 120.4       NH4:  0.8
SO4:  501.8        HCO3:  205.7       Cl:  674.2       NO3:   4.8         F:  6.9
Sum Cations: 1500.3  Sum Anions: 1393.7  Cations/Anions: 1.08   Tot. P:  13.0
Tot. Al:   23.0    Ext. Al:   6.0    Fe:     3.0     Mn:     3.0    SiO2:  0.06


ID: 383-054   Name: (NO NAME)                             State: FL  Date: 09DEC84
Sample Type: REGULAR            Latitude: 28-47'11"N    Longitude: 81-31'27"W
Elevation:   18   Surface Temp: 14.1  Stratified: MIXED      Site Depth:   0.9
Lake Area:      18 Watershed Area:     137 WA/LA:      7.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  0.4  Turbidity:   4.5      Color:   50
Closed pH: 7.99       Equil. pH: 8.59            ANC: 2458.6          DOC: 19.36
Closed DIC: 28.79   Equil. DIC: 31.41    Meas. Cond: 432.0   Cal. Cond: 527.0
Ca: 2880.7          Mg: 1104.8       Na:  312.1          K:  59.9       NH4: 41.6
SO4: 1728.1        HCO3: 2531.9       Cl:  270.8       NO3:   5.9         F: 10.6
Sum Cations: 4399.0  Sum Anions: 4568.8  Cations/Anions: 0.96   Tot. P:  42.0
Tot. Al:  172.0    Ext. Al:  24.0    Fe:     1.0     Mn:     5.0    SiO2:  0.13


ID: 383-060   Name: (NO NAME)                             State: FL  Date: 11DEC84
Sample Type: REGULAR            Latitude: 29-19'55"N    Longitude: 82-28'05"W
Elevation:   16   Surface Temp: 14.5  Stratified: MIXED      Site Depth:   2.4
Lake Area:       6 Watershed Area:     106 WA/LA:     18.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.5  Turbidity:   0.3      Color:   15
Closed pH: 8.25       Equil. pH: 8.41            ANC: 1458.1          DOC:  4.18
Closed DIC: 15.94   Equil. DIC: 15.74    Meas. Cond: 153.0   Cal. Cond: 157.1
Ca: 1324.3          Mg:  161.5       Na:   84.8          K:   9.8       NH4:  1.2
SO4:     7.1       HCO3: 1236.7       Cl:  106.4       NO3:   0.0         F:  2.7
Sum Cations: 1581.7  Sum Anions: 1364.7  Cations/Anions: 1.16   Tot. P:  12.0
Tot. Al:   17.0    Ext. Al:   0.0    Fe:     1.0     Mn:     0.0    SiO2:  0.17


ID: 383-068   Name: HAMMOCK LAKE                          State: FL  Date: 13DEC84
Sample Type: REGULAR            Latitude: 29-45'52"N    Longitude: 83-01'07"W
Elevation:   15   Surface Temp: 13.4  Stratified: MIXED      Site Depth:   2.7
Lake Area:      11 Watershed Area:     282 WA/LA:     26.6 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  1.8  Turbidity:   1.5      Color:  105
Closed pH: 7.44       Equil. pH: 8.55            ANC: 2542.6          DOC: 18.24
Closed DIC: 28.44   Equil. DIC: 28.79    Meas. Cond: 251.0   Cal. Cond: 278.5
Ca: 2187.6          Mg:  306.3       Na:  141.5          K:   1.2       NH4:  0.9
SO4:    22.5       HCO3: 2422.0       Cl:  183.9       NO3:   0.7         F:  2.2
Sum Cations: 2637.6  Sum Anions: 2647.7  Cations/Anions: 1.00   Tot. P:  18.0
Tot. Al:   56.0    Ext. Al:   0.0    Fe:   616.0     Mn:     6.0    SiO2:  4.72
```

(continued)

TABLE 3-1 (continued)

```
ID: 3B3-071   Name: GEORGES POND                          State: FL  Date: 11DEC84
Sample Type: REGULAR             Latitude: 29-32'02"N    Longitude: 82-18'42"W
Elevation:    21   Surface Temp: 14.5  Stratified: MIXED       Site Depth:    1.2
Lake Area:      22 Watershed Area:      132 WA/LA:       6.0 Hydro Type: SEEPAGE
Residence Time:    *     Secchi Depth:  0.8   Turbidity:    5.1       Color:   100
Closed pH: 6.88        Equil. pH: 7.30                ANC:   284.0          DOC: 18.40
Closed DIC:   2.83   Equil. DIC:   2.79    Meas. Cond:   72.5   Cal. Cond:   68.6
Ca:   366.0           Mg:    98.7        Na:   202.3        K:   23.5        NH4:   6.8
SO4:     29.1       HCO3:   194.2       Cl:   222.6       NO3:   13.0           F:   5.4
Sum Cations:   697.4  Sum Anions:   464.5  Cations/Anions: 1.50   Tot. P: 376.0
Tot. Al:    88.0    Ext. Al:    7.0    Fe:   194.0      Mn:    47.0     SiO2:   0.43


ID: 3B3-074   Name: LAKE STANDISH                         State: FL  Date: 09DEC84
Sample Type: REGULAR             Latitude: 28-42'02"N    Longitude: 81-33'08"W
Elevation:    20   Surface Temp: 13.3  Stratified: MIXED       Site Depth:    1.8
Lake Area:      20 Watershed Area:      199 WA/LA:      10.1 Hydro Type: SEEPAGE
Residence Time:    *     Secchi Depth:  1.3   Turbidity:    0.6       Color:   105
Closed pH: 6.36        Equil. pH: 7.93                ANC:   469.3          DOC: 22.71
Closed DIC:   5.49   Equil. DIC:   5.32    Meas. Cond: 141.0   Cal. Cond: 146.3
Ca:   323.6           Mg:   324.7        Na:   523.3        K:  126.1        NH4:   5.2
SO4:   200.5        HCO3:   369.4       Cl:   538.8       NO3:    0.0           F:   6.1
Sum Cations: 1302.9  Sum Anions: 1115.6  Cations/Anions: 1.17   Tot. P:   18.0
Tot. Al:    25.0    Ext. Al:    0.0    Fe:    69.0      Mn:    32.0     SiO2:   1.15


ID: 3B3-075   Name: SAXON LAKE                            State: FL  Date: 10DEC84
Sample Type: REGULAR             Latitude: 28-11'50"N    Longitude: 82-26'50"W
Elevation:    21   Surface Temp: 16.4  Stratified: MIXED       Site Depth:    4.9
Lake Area:      29 Watershed Area:        * WA/LA:         * Hydro Type: DRAINAGE
Residence Time:    *     Secchi Depth:  2.0   Turbidity:    2.3       Color:    40
Closed pH: 6.97        Equil. pH: 7.46                ANC:   273.2          DOC:  9.69
Closed DIC:   3.61   Equil. DIC:   3.07    Meas. Cond: 202.0   Cal. Cond: 217.9
Ca:   422.9           Mg:   468.1        Na:   703.8        K:  180.1        NH4:   2.7
SO4:   607.9        HCO3:   212.5       Cl:   792.7       NO3:    4.9           F:   5.4
Sum Cations: 1777.8  Sum Anions: 1623.8  Cations/Anions: 1.09   Tot. P:   23.0
Tot. Al:    78.0    Ext. Al:    3.0    Fe:    11.0      Mn:     2.0     SiO2:   0.49


ID: 3B3-077   Name: PRAIRIE LAKE                          State: FL  Date: 09DEC84
Sample Type: REGULAR             Latitude: 28-35'35"N    Longitude: 81-30'30"W
Elevation:    23   Surface Temp: 15.2  Stratified: MIXED       Site Depth:    2.4
Lake Area:      14 Watershed Area:      166 WA/LA:      11.9 Hydro Type: SEEPAGE
Residence Time:    *     Secchi Depth:  2.4   Turbidity:    0.4       Color:    60
Closed pH: 6.44        Equil. pH: 7.92                ANC:   252.6          DOC: 11.38
Closed DIC:   5.43   Equil. DIC:   3.33    Meas. Cond: 107.0   Cal. Cond: 107.2
Ca:   282.3           Mg:   330.4        Na:   210.5        K:  128.7        NH4:   3.8
SO4:   222.8        HCO3:   216.0       Cl:   324.4       NO3:    3.5           F:   1.7
Sum Cations:   955.9  Sum Anions:   768.9  Cations/Anions: 1.24   Tot. P:   13.0
Tot. Al:    40.0    Ext. Al:    7.0    Fe:    50.0      Mn:    16.0     SiO2:   0.30


ID: 3B3-082   Name: (NO NAME)                             State: FL  Date: 11DEC84
Sample Type: REGULAR             Latitude: 29-27'33"N    Longitude: 81-31'54"W
Elevation:    13   Surface Temp: 15.0  Stratified: MIXED       Site Depth:    3.7
Lake Area:       5 Watershed Area:       31 WA/LA:       6.7 Hydro Type: SEEPAGE
Residence Time:    *     Secchi Depth:  1.9   Turbidity:    0.9       Color:    85
Closed pH: 6.60        Equil. pH: 7.49                ANC:   305.1          DOC: 13.56
Closed DIC:   5.01   Equil. DIC:   3.49    Meas. Cond: 148.0   Cal. Cond: 154.3
Ca:   265.0           Mg:   429.8        Na:   458.5        K:  177.9        NH4:   2.8
SO4:   339.4        HCO3:   225.1       Cl:   550.1       NO3:    2.1           F:   3.6
Sum Cations: 1334.0  Sum Anions: 1120.5  Cations/Anions: 1.19   Tot. P:   24.0
Tot. Al:   166.0    Ext. Al:    3.0    Fe:    22.0      Mn:     9.0     SiO2:   0.45
```

(continued)

TABLE 3-1 (continued)

```
ID: 383-089   Name: BIRD POND                             State: FL  Date: 10DEC84
Sample Type: REGULAR              Latitude: 29-11'48"N   Longitude: 82-20'18"W
Elevation:   15   Surface Temp: 13.0  Stratified: MIXED      Site Depth:   1.2
Lake Area:       4 Watershed Area:     52 WA/LA:      13.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.2   Turbidity:   0.4      Color:   30
Closed pH: 7.65        Equil. pH: 8.54               ANC: 3263.2         DOC: 11.06
Closed DIC: 37.33   Equil. DIC: 40.48    Meas. Cond: 313.0   Cal. Cond: 362.8
Ca: 3040.9            Mg:  249.7        Na:  124.0          K:  17.0        NH4:   5.0
SO4:   21.9        HCO3: 3270.2        Cl:  134.3        NO3:   0.2           F:   5.3
Sum Cations: 3436.6  Sum Anions: 3475.9  Cations/Anions: 0.99  Tot. P:  11.0
Tot. Al:    8.0   Ext. Al:    0.0   Fe:     8.0     Mn:     7.0   SiO2:  1.95

ID: 383-109   Name: (NO NAME)                             State: FL  Date: 10DEC84
Sample Type: REGULAR              Latitude: 28-48'19"N   Longitude: 82-17'07"W
Elevation:   12   Surface Temp: 12.8  Stratified: MIXED      Site Depth:   1.2
Lake Area:      20 Watershed Area:    104 WA/LA:       5.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  1.2   Turbidity:   3.0      Color:   30
Closed pH: 7.24        Equil. pH: 8.54               ANC: 3639.8         DOC:  8.77
Closed DIC: 39.63   Equil. DIC: 42.59    Meas. Cond: 314.0   Cal. Cond: 359.0
Ca: 2989.0            Mg:  174.7        Na:  206.2          K:   4.8        NH4:   3.6
SO4:    3.2        HCO3: 3164.8        Cl:  229.9        NO3:   0.3           F:   5.4
Sum Cations: 3378.3  Sum Anions: 3433.9  Cations/Anions: 0.98  Tot. P:   9.0
Tot. Al:   15.0   Ext. Al:    0.0   Fe:   177.0     Mn:    34.0   SiO2:  7.24

ID: 383-110   Name: LAKE BINGHAM                          State: FL  Date: 08DEC84
Sample Type: REGULAR              Latitude: 28-44'22"N   Longitude: 81-18'37"W
Elevation:   12   Surface Temp: 16.3  Stratified: MIXED      Site Depth:   1.8
Lake Area:       7 Watershed Area:     34 WA/LA:       5.1 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  2.1   Turbidity:   1.2      Color:   35
Closed pH: 6.13        Equil. pH: 6.52               ANC:   33.4         DOC:  7.67
Closed DIC:  0.81   Equil. DIC:  0.63    Meas. Cond:  77.8   Cal. Cond:  78.0
Ca:  200.1            Mg:  165.8        Na:  268.8          K:  19.9        NH4:   0.6
SO4:  241.5        HCO3:   24.5        Cl:  284.9        NO3:   0.0           F:   2.0
Sum Cations:  655.5  Sum Anions:  552.9  Cations/Anions: 1.19  Tot. P:   9.0
Tot. Al:   57.0   Ext. Al:    7.0   Fe:    10.0     Mn:     3.0   SiO2:  0.17

ID: 383-116   Name: MOODY LAKE                            State: FL  Date: 10DEC84
Sample Type: REGULAR              Latitude: 28-24'28"N   Longitude: 82-17'45"W
Elevation:   33   Surface Temp: 15.7  Stratified: MIXED      Site Depth:   2.7
Lake Area:      82 Watershed Area:    865 WA/LA:      10.5 Hydro Type: DRAINAGE
Residence Time:  0.33  Secchi Depth:  2.5   Turbidity:   0.4      Color:   65
Closed pH: 6.86        Equil. pH: 8.08               ANC:  688.0         DOC: 10.10
Closed DIC: 10.26   Equil. DIC:  7.05    Meas. Cond: 168.0   Cal. Cond: 173.3
Ca:  503.5            Mg:  571.5        Na:  284.9          K: 213.0        NH4:   1.9
SO4:   62.9        HCO3:  587.4        Cl:  662.9        NO3:   3.7           F:   8.0
Sum Cations: 1574.9  Sum Anions: 1332.3  Cations/Anions: 1.18  Tot. P:  26.0
Tot. Al:   20.0   Ext. Al:    0.0   Fe:    44.0     Mn:     3.0   SiO2:  0.46

ID: 383-117   Name: KEYSTONE LAKE                         State: FL  Date: 10DEC84
Sample Type: REGULAR              Latitude: 28-07'52"N   Longitude: 82-35'25"W
Elevation:   13   Surface Temp: 17.1  Stratified: MIXED      Site Depth:   3.7
Lake Area:     167 Watershed Area:    445 WA/LA:       2.7 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  2.3   Turbidity:   0.8      Color:   30
Closed pH: 6.80        Equil. pH: 6.66               ANC:   48.2         DOC:  7.75
Closed DIC:  0.62   Equil. DIC:  0.60    Meas. Cond:  90.7   Cal. Cond:  92.6
Ca:  249.5            Mg:  152.6        Na:  308.0          K:  56.2        NH4:   0.8
SO4:  243.6        HCO3:   25.3        Cl:  380.8        NO3:   0.0           F:   4.3
Sum Cations:  767.4  Sum Anions:  654.1  Cations/Anions: 1.17  Tot. P:   9.0
Tot. Al:   61.0   Ext. Al:    4.0   Fe:    21.0     Mn:     3.0   SiO2:  0.15
```

(continued)

TABLE 3-1 (continued)

```
ID: 383-129   Name: LAKE SUNSHINE                       State: FL  Date: 09DEC84
Sample Type: REGULAR            Latitude: 28-55'32"N    Longitude: 81-55'20"W
Elevation:   21   Surface Temp: 14.2  Stratified: MIXED     Site Depth:   2.4
Lake Area:       5 Watershed Area:      57 WA/LA:     11.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.0  Turbidity: 290.0     Color:  300
Closed pH: 6.42       Equil. pH: 7.08                ANC:   81.1       DOC:  7.44
Closed DIC:  1.71   Equil. DIC:  1.27    Meas. Cond:  50.9   Cal. Cond:  50.1
Ca:  177.8          Mg:  104.8        Na:  136.6          K:  27.1      NH4:  1.7
SO4:   92.2       HCO3:   78.3       Cl:  147.8        NO3:  37.3          F:  2.6
Sum Cations:  448.1  Sum Anions:  358.3  Cations/Anions: 1.25   Tot. P: 122.0
Tot. Al: 1357.4    Ext. Al:  27.0    Fe:   28.0      Mn:      5.0    SiO2:  1.34

ID: 383-132   Name: SADDLEBAG LAKE                      State: FL  Date: 04DEC84
Sample Type: REGULAR            Latitude: 27-53'52"N    Longitude: 81-27'52"W
Elevation:   32   Surface Temp: 21.2  Stratified: MIXED     Site Depth:  13.4
Lake Area:     117 Watershed Area:     554 WA/LA:      4.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.4  Turbidity:   0.6     Color:   15
Closed pH: 7.55       Equil. pH: 7.71                ANC:  326.1       DOC:  5.43
Closed DIC:  3.78   Equil. DIC:  3.32    Meas. Cond: 132.0   Cal. Cond: 136.7
Ca:  448.8          Mg:  335.4        Na:  246.6          K: 140.1      NH4:  5.3
SO4:  397.7       HCO3:  257.6       Cl:  327.2        NO3:  11.1          F:  2.4
Sum Cations: 1176.2  Sum Anions:  996.7  Cations/Anions: 1.18   Tot. P:   8.0
Tot. Al:   36.0    Ext. Al:  28.0    Fe:    8.0      Mn:      0.0    SiO2:  0.31

ID: 383-133   Name: LOFTON PONDS (SOUTH)                State: FL  Date: 14DEC84
Sample Type: REGULAR            Latitude: 30-21'12"N    Longitude: 84-22'55"W
Elevation:   10   Surface Temp: 14.6  Stratified: MIXED     Site Depth:   2.4
Lake Area:      11 Watershed Area:     137 WA/LA:     12.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.4  Turbidity:   0.4     Color:    5
Closed pH: 4.76       Equil. pH: 4.69                ANC:  -26.2       DOC:  3.93
Closed DIC:  0.61   Equil. DIC:  0.26    Meas. Cond:  16.3   Cal. Cond:  17.7
Ca:   12.1          Mg:   14.9        Na:   53.5          K:   2.6      NH4:  1.8
SO4:   32.1       HCO3:    0.5       Cl:   53.9        NO3:   0.8          F:  0.4
Sum Cations:  103.2  Sum Anions:   87.7  Cations/Anions: 1.18   Tot. P:   3.0
Tot. Al:   37.0    Ext. Al:   9.0    Fe:    8.0      Mn:     29.0    SiO2:  0.01

ID: 383-136   Name: LAKE JEFFERY                        State: FL  Date: 13DEC84
Sample Type: REGULAR            Latitude: 30-12'32"N    Longitude: 82-41'30"W
Elevation:   40   Surface Temp: 14.5  Stratified: MIXED     Site Depth:   3.4
Lake Area:      47 Watershed Area:     394 WA/LA:      8.4 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.5  Turbidity:   0.5     Color:   35
Closed pH: 5.79       Equil. pH: 6.21                ANC:   15.7       DOC:  6.43
Closed DIC:  1.13   Equil. DIC:  0.40    Meas. Cond:  28.4   Cal. Cond:  25.2
Ca:   61.5          Mg:   42.3        Na:  118.8          K:   1.9      NH4:  0.3
SO4:   23.3       HCO3:   11.8       Cl:  137.7        NO3:   0.0          F:  1.4
Sum Cations:  225.5  Sum Anions:  174.2  Cations/Anions: 1.29   Tot. P:   9.0
Tot. Al:   36.0    Ext. Al:   0.0    Fe:   20.0      Mn:      7.0    SiO2:  0.31

ID: 383-148   Name: (NO NAME)                           State: FL  Date: 05DEC84
Sample Type: REGULAR            Latitude: 28-15'51"N    Longitude: 81-35'43"W
Elevation:   31   Surface Temp: 21.1  Stratified: MIXED     Site Depth:   3.4
Lake Area:       6 Watershed Area:      18 WA/LA:      3.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.7  Turbidity:   1.5     Color:   40
Closed pH: 5.74       Equil. pH: 6.00                ANC:   39.2       DOC: 10.69
Closed DIC:  0.58   Equil. DIC:  0.70    Meas. Cond:  79.2   Cal. Cond:  77.3
Ca:  122.6          Mg:  181.5        Na:  243.9          K:  82.8      NH4:  4.2
SO4:  192.8       HCO3:    9.6       Cl:  327.2        NO3:   1.7          F:  3.8
Sum Cations:  637.0  Sum Anions:  535.2  Cations/Anions: 1.19   Tot. P:  13.0
Tot. Al:  210.0    Ext. Al:  16.0    Fe:   10.0      Mn:     12.0    SiO2:  0.07
```

(continued)

TABLE 3-1 (continued)

```
ID: 383-157   Name: (NO NAME)                         State: FL  Date: 10DEC84
Sample Type: REGULAR              Latitude: 28-17'03"N    Longitude: 82-19'07"W
Elevation:    30   Surface Temp: 15.1  Stratified: MIXED      Site Depth:    2.7
Lake Area:      18 Watershed Area:     158 WA/LA:     8.8 Hydro Type: DRAINAGE
Residence Time:  0.37  Secchi Depth:  1.3   Turbidity:   1.9      Color:   105
Closed pH: 6.47        Equil. pH: 7.13              ANC:   142.5        DOC: 11.22
Closed DIC:  2.40   Equil. DIC:  1.34    Meas. Cond:  91.3   Cal. Cond:   92.7
Ca:  163.8          Mg:  213.1        Na:  252.3          K: 144.8       NH4:   5.2
SO4:   82.9       HCO3:   83.7       Cl:  473.9        NO3:  12.3          F:  10.0
Sum Cations:  779.2  Sum Anions:  662.9  Cations/Anions: 1.18   Tot. P:  29.0
Tot. Al:   55.0    Ext. Al:   6.0    Fe:    93.0    Mn:     5.0    SiO2:  0.08

ID: 383-162   Name: LAKE THOMAS                       State: FL  Date: 10DEC84
Sample Type: REGULAR              Latitude: 28-08'47"N    Longitude: 82-29'15"W
Elevation:    19   Surface Temp: 17.0  Stratified: MIXED      Site Depth:    4.9
Lake Area:      23 Watershed Area:      98 WA/LA:     4.4 Hydro Type: DRAINAGE
Residence Time:  0.98  Secchi Depth:  2.9   Turbidity:   1.4      Color:    20
Closed pH: 6.76        Equil. pH: 6.79              ANC:    73.2        DOC:  8.07
Closed DIC:  0.97   Equil. DIC:  0.78    Meas. Cond: 125.6   Cal. Cond:  129.9
Ca:  268.7          Mg:  161.7        Na:  563.8          K:  61.5       NH4:   1.0
SO4:  272.7       HCO3:   42.0       Cl:  634.7        NO3:   0.0          F:   5.8
Sum Cations: 1056.9  Sum Anions:  955.3  Cations/Anions: 1.11   Tot. P:  15.0
Tot. Al:   37.0    Ext. Al:   0.0    Fe:     5.0    Mn:     3.0    SiO2:  0.09

ID: 383-168   Name: HAVEN WINQUIPIN                   State: FL  Date: 13DEC84
Sample Type: REGULAR              Latitude: 29-33'54"N    Longitude: 82-45'03"W
Elevation:    17   Surface Temp: 13.8  Stratified: MIXED      Site Depth:    1.5
Lake Area:      13 Watershed Area:     117 WA/LA:     9.2 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  0.5   Turbidity:   2.0      Color:   175
Closed pH: 5.98        Equil. pH: 6.51              ANC:    67.5        DOC: 19.65
Closed DIC:  1.45   Equil. DIC:  0.76    Meas. Cond:  38.0   Cal. Cond:   34.7
Ca:  171.7          Mg:   57.1        Na:  128.0          K:   4.6       NH4:   2.5
SO4:   12.7       HCO3:   21.0       Cl:  159.2        NO3:   1.5          F:   1.2
Sum Cations:  364.6  Sum Anions:  195.5  Cations/Anions: 1.86   Tot. P:  28.0
Tot. Al:  135.0    Ext. Al:  22.5    Fe:   235.5    Mn:    11.0    SiO2:  0.11

ID: 383-169   Name: (NO NAME)                         State: FL  Date: 10DEC84
Sample Type: REGULAR              Latitude: 28-26'10"N    Longitude: 82-23'15"W
Elevation:    21   Surface Temp: 13.4  Stratified: MIXED      Site Depth:    1.2
Lake Area:       6 Watershed Area:     637 WA/LA:   111.8 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:` 0.4   Turbidity:  31.0      Color:    80
Closed pH: 6.57        Equil. pH: 6.64              ANC:    75.9        DOC: 12.16
Closed DIC:  0.67   Equil. DIC:  1.41    Meas. Cond:  38.7   Cal. Cond:   37.3
Ca:  128.4          Mg:   57.2        Na:  100.9          K:  51.0       NH4:   5.8
SO4:   48.1       HCO3:   46.2       Cl:  140.8        NO3:   3.7          F:   6.8
Sum Cations:  343.7  Sum Anions:  245.7  Cations/Anions: 1.40   Tot. P: 136.0
Tot. Al:  950.0    Ext. Al:  18.0    Fe:    62.0    Mn:     6.0    SiO2:  1.18

ID: 383-173   Name: CLEAR LAKE                        State: FL  Date: 11DEC84
Sample Type: REGULAR              Latitude: 28-21'45"N    Longitude: 82-28'45"W
Elevation:    21   Surface Temp: 14.8  Stratified: MIXED      Site Depth:    1.8
Lake Area:       7 Watershed Area:      28 WA/LA:     3.9 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  1.9   Turbidity:   0.8      Color:    60
Closed pH: 7.01        Equil. pH: 7.79              ANC:   549.9        DOC: 13.21
Closed DIC:  7.14   Equil. DIC:  5.62    Meas. Cond:  92.1   Cal. Cond:   92.4
Ca:  661.2          Mg:   93.0        Na:  148.6          K:  19.8       NH4:   1.4
SO4:   70.3       HCO3:  411.9       Cl:  195.1        NO3:   0.3          F:   2.7
Sum Cations:  924.0  Sum Anions:  681.9  Cations/Anions: 1.35   Tot. P:  14.0
Tot. Al:   30.0    Ext. Al:   0.0    Fe:    31.5    Mn:     1.0    SiO2:  0.36
```

(continued)

TABLE 3-1 (continued)

```
ID: 383-175   Name: LAKE WOODWARD                           State: FL  Date: 09DEC84
Sample Type: REGULAR              Latitude: 28-49'30"N   Longitude: 81-40'45"W
Elevation:    21   Surface Temp: 17.5  Stratified: MIXED      Site Depth:    4.6
Lake Area:       26 Watershed Area:      85 WA/LA:      3.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.2   Turbidity:    1.1      Color:    20
Closed pH: 7.52         Equil. pH: 8.24                ANC:  715.7        DOC:  5.02
Closed DIC:  9.06   Equil. DIC:  7.99    Meas. Cond: 242.0   Cal. Cond: 271.6
Ca:  941.1              Mg:  522.0        Na:  465.4         K: 257.3       NH4:   7.3
SO4:  843.2         HCO3:  658.5       Cl:  598.1          NO3:  31.6            F:   4.9
Sum Cations: 2193.2  Sum Anions: 2140.0  Cations/Anions: 1.02   Tot. P:  13.0
Tot. Al:    35.0    Ext. Al:  12.0     Fe:      0.0      Mn:     0.0    SiO2:  0.39

ID: 383-176   Name: MOORE LAKE                              State: FL  Date: 14DEC84
Sample Type: REGULAR              Latitude: 30-23'33"N   Longitude: 84-24'15"W
Elevation:    29   Surface Temp: 15.6  Stratified: MIXED      Site Depth:    1.8
Lake Area:       28 Watershed Area:     127 WA/LA:      4.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.8   Turbidity:    0.3      Color:    20
Closed pH: 4.84         Equil. pH: 4.78                ANC:  -23.9        DOC:  4.05
Closed DIC:  0.41   Equil. DIC:  0.17    Meas. Cond:  18.1   Cal. Cond:  19.7
Ca:    18.0             Mg:    29.4       Na:    62.8        K:    1.6      NH4:   2.1
SO4:   31.4         HCO3:     0.5      Cl:    76.2         NO3:    1.5           F:   0.6
Sum Cations:   128.6  Sum Anions:   110.2  Cations/Anions: 1.17   Tot. P:   5.0
Tot. Al:    15.0    Ext. Al:   0.0     Fe:     13.0      Mn:    13.0    SiO2:  0.01
```

SECTION 4

DATA FOR INDIVIDUAL SPECIAL INTEREST LAKES SORTED BY LAKE ID

A number of lakes that were not part of the probability sample lakes were included for sampling during the ELS-I. These lakes, termed "special interest" lakes, were sampled primarily because of their importance to programs initiated prior to the ELS-I. These lakes included those currently in the EPA Long-Term Monitoring Program, a group of lakes recommended by the Acid Deposition Trends Committee of the National Research Council, and those for which various State agencies requested inclusion.

The data collected from these lakes were not included in the population estimates presented in Volumes I and II because they were not part of the Survey design. However, the data were included in the examination of the bivariate and multivariate relationships presented in Volume I, Section 5. These relationships, useful in examining the role of certain chemicals in lake acidification processes, are based on unweighted sample data and thus may not necessarily reflect the relationships that exist for the population of lakes (Volume I, Section 5).

The data for individual special interest lakes, sorted by Lake ID shown in the upper left hand corner, are presented in Table 4-1. The list of special interest lakes, also sorted by lake ID, is given in Appendix B; the state in which each lake is located, the geographical coordinates of the lake, and the name and size of the map used to locate and characterize the lake are also given. An alphabetical list by lake name is given in Volume II, Table 7-1.

The values shown in Table 4-1 are presented as they appear in the final data set (Data Set 4). The raw data for the variables presented here have been modified; for both regular and special interest lakes: (1) negative values measured for variables other than ANC have been set to zero; (2) 9 missing values have been substituted with synthetic values; (3) 83 suspected analytical errors have been replaced with synthetic values; and (4) measurements for 124 duplicate lake samples have been averaged (Volume I, Section 3.4 and Eilers et al. 1986).

Individuals wishing to use unmodified data should request the validated data set (Data Set 3, described in Volume I, Section 3.3.2). Information on availability of all data is provided in the Notice (page ii).

TABLE 4-1. SPECIAL INTEREST LAKES SORTED BY LAKE ID

```
ID: 1A1-076   Name: MINNOW POND
Sample Type: SPC/NRC/                        State: NY  Date: 15OCT84
                       Latitude: 43-52'53"N     Longitude: 74-26'15"W
Elevation:  612   Surface Temp: 12.6  Stratified: MIXED   Site Depth:   3.0
Lake Area:      42 Watershed Area:     440 WA/LA:     10.4 Hydro Type: DRAINAGE
Residence Time:  0.20  Secchi Depth:  2.7   Turbidity:   0.4     Color:    30
Closed pH: 6.56         Equil. pH: 7.14            ANC:    84.4        DOC:  5.14
Closed DIC:  1.30   Equil. DIC:  0.90    Meas. Cond:  36.0   Cal. Cond:  48.0
Ca:  150.8          Mg:    44.9         Na:   192.3          K:  13.2        NH4:   2.4
SO4:   96.3       HCO3:    68.9         Cl:   191.9        NO3:   1.7          F:   5.3
Sum Cations:  403.9  Sum Anions:  364.1  Cations/Anions: 1.11   Tot. P:   0.0
Tot. Al:   62.2    Ext. Al:    9.3    Fe:    49.0      Mn:     7.0    SiO2:  1.40

ID: 1A1-077   Name: PILLSBURY LAKE
Sample Type: SPC/NRC/                        State: NY  Date: 30OCT84
                       Latitude: 43-35'50"N     Longitude: 74-32'00"W
Elevation:  760   Surface Temp: 11.0  Stratified: MIXED   Site Depth:   3.0
Lake Area:      34 Watershed Area:     715 WA/LA:     21.3 Hydro Type: DRAINAGE
Residence Time:  0.08  Secchi Depth:  3.3   Turbidity:   0.5     Color:    20
Closed pH: 5.59         Equil. pH: 5.87            ANC:    16.3        DOC:  4.50
Closed DIC:  0.59   Equil. DIC:  0.20    Meas. Cond:  21.0   Cal. Cond:  20.5
Ca:   85.0          Mg:    30.8         Na:    22.0          K:   4.3        NH4:   1.2
SO4:  129.8       HCO3:     6.8         Cl:     9.0        NO3:   0.3          F:   1.9
Sum Cations:  145.5  Sum Anions:  147.8  Cations/Anions: 0.98   Tot. P:   4.1
Tot. Al:  207.3    Ext. Al:   61.0    Fe:     7.0      Mn:    18.0    SiO2:  2.79

ID: 1A1-078   Name: SILVER LAKE
Sample Type: SPC/NRC/                        State: NY  Date: 14OCT84
                       Latitude: 43-50'38"N     Longitude: 74-54'45"W
Elevation:  641   Surface Temp: 13.1  Stratified: MIXED   Site Depth:   5.2
Lake Area:      22 Watershed Area:     129 WA/LA:      5.8 Hydro Type: DRAINAGE
Residence Time:  0.53  Secchi Depth:  4.8   Turbidity:   0.1     Color:    10
Closed pH: 4.93         Equil. pH: 4.96            ANC:    -2.4        DOC:  0.09
Closed DIC:  0.31   Equil. DIC:  0.13    Meas. Cond:  29.3   Cal. Cond:  21.8
Ca:   56.8          Mg:    16.7         Na:    17.1          K:   6.9        NH4:   6.9
SO4:  125.1       HCO3:     1.2         Cl:     7.5        NO3:  14.8          F:   2.7
Sum Cations:  115.4  Sum Anions:  151.3  Cations/Anions: 0.76   Tot. P:   0.0
Tot. Al:  300.8    Ext. Al:  185.8    Fe:    72.0      Mn:    54.0    SiO2:  1.82

ID: 1A1-079   Name: SOUTH LAKE
Sample Type: SPC/NRC/                        State: NY  Date: 30OCT84
                       Latitude: 43-35'13"N     Longitude: 74-37'45"W
Elevation:  715   Surface Temp: 11.4  Stratified: MIXED   Site Depth:   9.7
Lake Area:      36 Watershed Area:     386 WA/LA:     10.6 Hydro Type: DRAINAGE
Residence Time:  0.55  Secchi Depth:  3.4   Turbidity:   0.7     Color:    25
Closed pH: 5.34         Equil. pH: 5.42            ANC:     7.3        DOC:  3.41
Closed DIC:  0.60   Equil. DIC:  0.16    Meas. Cond:  18.5   Cal. Cond:  19.4
Ca:   61.9          Mg:    31.2         Na:    20.6          K:   5.8        NH4:   3.7
SO4:  122.0       HCO3:     4.0         Cl:     8.1        NO3:   2.7          F:   2.2
Sum Cations:  127.2  Sum Anions:  139.0  Cations/Anions: 0.92   Tot. P:   4.5
Tot. Al:  259.2    Ext. Al:  100.8    Fe:    40.0      Mn:    60.0    SiO2:  3.17

ID: 1A1-080   Name: SPRUCE LAKE
Sample Type: SPC/NRC/                        State: NY  Date: 30OCT84
                       Latitude: 43-32'00"N     Longitude: 74-36'37"W
Elevation:  725   Surface Temp: 11.7  Stratified: MIXED   Site Depth:   7.6
Lake Area:      66 Watershed Area:     932 WA/LA:     14.1 Hydro Type: DRAINAGE
Residence Time:  0.32  Secchi Depth:  7.6   Turbidity:   0.3     Color:    15
Closed pH: 5.56         Equil. pH: 5.74            ANC:    10.2        DOC:  2.07
Closed DIC:  0.50   Equil. DIC:  0.13    Meas. Cond:  17.4   Cal. Cond:  18.4
Ca:   58.8          Mg:    28.8         Na:    22.5          K:   6.8        NH4:   2.0
SO4:  114.8       HCO3:     4.8         Cl:     7.8        NO3:   6.1          F:   2.5
Sum Cations:  121.9  Sum Anions:  136.0  Cations/Anions: 0.90   Tot. P:   4.2
Tot. Al:  138.9    Ext. Al:   60.4    Fe:     9.0      Mn:    38.0    SiO2:  3.02
```

(continued)

TABLE 4-1 (continued)

```
ID: 1A1-081   Name: STEPHEN'S POND                   State: NY  Date: 15OCT84
Sample Type: SPC/NRC/            Latitude: 43-49'10"N   Longitude: 74-25'00"W
Elevation:  595   Surface Temp: 12.6  Stratified: MIXED     Site Depth:   3.0
Lake Area:      25 Watershed Area:     142 WA/LA:      5.7 Hydro Type: DRAINAGE
Residence Time:  0.36  Secchi Depth:  2.6   Turbidity:   0.7      Color:   30
Closed pH: 6.44        Equil. pH: 6.88              ANC:    60.6        DOC:  5.78
Closed DIC:  0.92   Equil. DIC:  0.64    Meas. Cond:  25.1   Cal. Cond:  23.9
Ca:  133.8          Mg:    35.5       Na:    24.9       K:    7.9       NH4:  1.4
SO4:  110.4       HCO3:    54.4       Cl:     7.6      NO3:   0.1          F:  3.0
Sum Cations:  203.8  Sum Anions:  175.5  Cations/Anions: 1.16   Tot. P:   1.7
Tot. Al:  189.7    Ext. Al:    6.0    Fe:    72.0     Mn:    16.0    SiO2:  1.75

ID: 1A1-082   Name: THIRSTY POND                     State: NY  Date: 14OCT84
Sample Type: SPC/NRC/            Latitude: 43-49'22"N   Longitude: 74-54'20"W
Elevation:  647   Surface Temp: 13.9  Stratified: MIXED     Site Depth:   1.5
Lake Area:      11 Watershed Area:     104 WA/LA:      9.2 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  2.0   Turbidity:   0.1      Color:   10
Closed pH: 5.23        Equil. pH: 5.24              ANC:     2.2        DOC:  2.15
Closed DIC:  0.30   Equil. DIC:  0.12    Meas. Cond:  22.4   Cal. Cond:  20.6
Ca:   75.6          Mg:    22.4       Na:    25.4       K:    6.8       NH4:  1.8
SO4:  128.8       HCO3:     2.9       Cl:     6.7      NO3:   3.2          F:  3.2
Sum Cations:  136.9  Sum Anions:  144.8  Cations/Anions: 0.95   Tot. P:   0.0
Tot. Al:  185.9    Ext. Al:   81.9    Fe:    51.0     Mn:    38.0    SiO2:  0.73

ID: 1A1-083   Name: WEST LAKE                        State: NY  Date: 14OCT84
Sample Type: SPC/NRC/            Latitude: 43-45'20"N   Longitude: 74-55'15"W
Elevation:  527   Surface Temp: 12.8  Stratified: MIXED     Site Depth:   7.0
Lake Area:      13 Watershed Area:      36 WA/LA:      2.9 Hydro Type: DRAINAGE
Residence Time:  1.39  Secchi Depth:  4.3   Turbidity:   0.4      Color:   25
Closed pH: 6.75        Equil. pH: 7.23              ANC:   109.0        DOC:  3.05
Closed DIC:  1.54   Equil. DIC:  1.22    Meas. Cond:  34.1   Cal. Cond:  31.7
Ca:  153.5          Mg:    51.5       Na:    50.1       K:   12.6       NH4:  2.3
SO4:  116.8       HCO3:   102.0       Cl:    15.4      NO3:  11.4          F:  5.1
Sum Cations:  270.1  Sum Anions:  250.9  Cations/Anions: 1.08   Tot. P:   0.9
Tot. Al:   70.1    Ext. Al:   11.9    Fe:    37.0     Mn:    21.0    SiO2:  7.15

ID: 1A1-084   Name: DEEP LAKE                        State: NY  Date: 30OCT84
Sample Type: SPC/NRC/            Latitude: 43-37'10"N   Longitude: 74-39'48"W
Elevation:  789   Surface Temp: 11.4  Stratified: MIXED     Site Depth:   8.8
Lake Area:      12 Watershed Area:      91 WA/LA:      7.7 Hydro Type: DRAINAGE
Residence Time:  0.68  Secchi Depth:  6.9   Turbidity:   0.3      Color:   10
Closed pH: 4.76        Equil. pH: 4.76              ANC:    -9.1        DOC:  2.32
Closed DIC:  0.30   Equil. DIC:  0.13    Meas. Cond:  23.0   Cal. Cond:  22.7
Ca:   37.6          Mg:    20.3       Na:    15.7       K:    5.7       NH4:  1.1
SO4:  130.2       HCO3:     0.7       Cl:     8.3      NO3:   7.3          F:  1.7
Sum Cations:   98.6  Sum Anions:  148.3  Cations/Anions: 0.66   Tot. P:   2.1
Tot. Al:  550.5    Ext. Al:  291.1    Fe:    18.0     Mn:    38.0    SiO2:  1.75

ID: 1A1-086   Name: TOWNSEND POND                    State: NY  Date: 16OCT84
Sample Type: SPC/NRC/            Latitude: 43-48'50"N   Longitude: 74-50'22"W
Elevation:  564   Surface Temp: 12.9  Stratified: MIXED     Site Depth:   0.6
Lake Area:       2 Watershed Area:      75 WA/LA:     44.1 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.0   Turbidity:   0.1      Color:   30
Closed pH: 5.08        Equil. pH: 5.41              ANC:     5.9        DOC:  2.88
Closed DIC:  1.58   Equil. DIC:  0.17    Meas. Cond:  23.6   Cal. Cond:  23.5
Ca:   83.2          Mg:    26.2       Na:    31.0       K:    6.2       NH4:  1.8
SO4:  143.1       HCO3:     5.8       Cl:    12.7      NO3:   0.4          F:  3.9
Sum Cations:  154.3  Sum Anions:  166.0  Cations/Anions: 0.93   Tot. P:   0.0
Tot. Al:  251.8    Ext. Al:   99.5    Fe:     8.0     Mn:    48.0    SiO2:  3.40
```

(continued)

TABLE 4-1 (continued)

```
ID: 1A1-088   Name: WOODRUFF POND                         State: NY  Date: 15OCT84
Sample Type: SPC/NRC/             Latitude: 43-57'54"N    Longitude: 74-08'45"W
Elevation:  472  .Surface Temp: 12.4  Stratified: MIXED       Site Depth:   1.0
Lake Area:      16 Watershed Area:     306 WA/LA:     18.8 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.7   Turbidity:   0.3        Color:    40
Closed pH: 7.32          Equil. pH: 7.79              ANC:   364.8        DOC:  8.06
Closed DIC:  4.23   Equil. DIC:  3.94    Meas. Cond:  63.3   Cal. Cond:  70.7
Ca:  491.0           Mg:  132.4        Na:   62.8         K:   5.8       NH4:   1.9
SO4:  159.9        HCO3:  315.6        Cl:   49.0       NO3:   0.0         F:   2.6
Sum Cations:  694.0  Sum Anions:  527.9  Cations/Anions: 1.31   Tot. P:    2.0
Tot. Al:    66.7    Ext. Al:  14.1     Fe:    78.0      Mn:    0.0    SiO2:  3.13

ID: 1A1-089   Name: QUEER LAKE                            State: NY  Date: 14OCT84
Sample Type: SPC/NRC/             Latitude: 43-48'40"N    Longitude: 74-48'00"W
Elevation:  597   Surface Temp: 13.4  Stratified: WEAK        Site Depth:  15.0
Lake Area:      53 Watershed Area:     350 WA/LA:      6.6 Hydro Type: DRAINAGE
Residence Time:  1.35  Secchi Depth: 10.1   Turbidity:   0.1        Color:    10
Closed pH: 5.63          Equil. pH: 5.72              ANC:     7.4        DOC:  1.92
Closed DIC:  0.31   Equil. DIC:  0.16    Meas. Cond:  23.2   Cal. Cond:  22.2
Ca:    95.8          Mg:   28.1        Na:   18.9         K:  10.2       NH4:   2.2
SO4:  130.3        HCO3:    4.0        Cl:    8.9       NO3:   9.2         F:   4.1
Sum Cations:  158.0  Sum Anions:  156.4  Cations/Anions: 1.01   Tot. P:    0.0
Tot. Al:    89.0    Ext. Al:  55.4     Fe:    11.0      Mn:   52.0    SiO2:  1.38

ID: 1A1-090   Name: WHIPPLE POND                          State: NY  Date: 12OCT84
Sample Type: SPC/NRC/             Latitude: 44-22'36"N    Longitude: 74-18'09"W
Elevation:  493   Surface Temp: 11.5  Stratified: MIXED       Site Depth:   2.7
Lake Area:       3 Watershed Area:      18 WA/LA:      5.8 Hydro Type: DRAINAGE
Residence Time:  0.37  Secchi Depth:  1.8   Turbidity:   0.9        Color:    25
Closed pH: 4.96          Equil. pH: 5.04              ANC:     4.7        DOC:  5.38
Closed DIC:  0.84   Equil. DIC:  0.15    Meas. Cond:  16.4   Cal. Cond:  15.1
Ca:    48.8          Mg:   18.5        Na:   14.8         K:   7.8       NH4:   2.1
SO4:   76.7        HCO3:    2.1        Cl:    6.6       NO3:   0.2         F:   1.1
Sum Cations:  100.5  Sum Anions:   86.6  Cations/Anions: 1.16   Tot. P:    3.8
Tot. Al:    33.7    Ext. Al:   8.1     Fe:    47.0      Mn:   38.0    SiO2:  0.10

ID: 1A1-091   Name: JONES POND                            State: NY  Date: 11OCT84
Sample Type: SPC/NRC/             Latitude: 44-27'08"N    Longitude: 74-11'15"W
Elevation:  503   Surface Temp:  9.8  Stratified: MIXED       Site Depth:   1.8
Lake Area:      58 Watershed Area:     741 WA/LA:     12.7 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  2.3   Turbidity:   0.4        Color:    70
Closed pH: 7.13          Equil. pH: 7.78              ANC:   375.1        DOC:  6.74
Closed DIC:  4.08   Equil. DIC:  4.05    Meas. Cond:  62.3   Cal. Cond:  66.1
Ca:  323.5           Mg:  186.7        Na:   91.8         K:  13.1       NH4:   1.8
SO4:  142.0        HCO3:  319.1        Cl:   71.2       NO3:   0.0         F:   3.0
Sum Cations:  617.0  Sum Anions:  536.1  Cations/Anions: 1.15   Tot. P:    5.1
Tot. Al:    46.8    Ext. Al:   8.1     Fe:   207.0      Mn:    3.0    SiO2:  1.83

ID: 1A1-092   Name: FISH POND                             State: NY  Date: 11OCT84
Sample Type: SPC/NRC/             Latitude: 44-23'37"N    Longitude: 74-22'15"W
Elevation:  486   Surface Temp: 11.5  Stratified: MIXED       Site Depth:  10.1
Lake Area:      48 Watershed Area:    2246 WA/LA:     46.6 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  3.1   Turbidity:   0.4        Color:    35
Closed pH: 6.65          Equil. pH: 7.01              ANC:    81.2        DOC:  4.75
Closed DIC:  1.13   Equil. DIC:  0.85    Meas. Cond:  27.0   Cal. Cond:  28.1
Ca:  147.9           Mg:   45.6        Na:   35.5         K:   8.6       NH4:   1.1
SO4:  127.0        HCO3.   74.6        Cl:    9.4       NO3:   0.0         F:   2.1
Sum Cations:  238.8  Sum Anions:  213.3  Cations/Anions: 1.12   Tot. P:    7.9
Tot. Al:    57.3    Ext. Al:  13.0     Fe:    60.0      Mn:    7.0    SiO2:  3.93
```

(continued)

TABLE 4-1 (continued)

```
ID: 1A1-093   Name: GAL POND                            State: NY  Date: 24OCT84
Sample Type: SPC/NRC/           Latitude: 44-02'40"N    Longitude: 74-53'40"W
Elevation:  570   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   2.1
Lake Area:       6 Watershed Area:    1013 WA/LA:    184.2 Hydro Type: DRAINAGE
Residence Time:  0.01  Secchi Depth:  1.3   Turbidity:   1.0      Color:   20
Closed pH: 5.02        Equil. pH: 5.14             ANC:    1.8         DOC:  4.33
Closed DIC:  0.21   Equil. DIC:  0.14   Meas. Cond:  22.5   Cal. Cond:  22.8
Ca:   77.2          Mg:    26.4       Na:    24.9         K:   6.9      NH4:  0.7
SO4:  138.6        HCO3:     2.1      Cl:     9.3       NO3:   0.0        F:  4.5
Sum Cations:  144.2  Sum Anions:   154.5  Cations/Anions: 0.93   Tot. P:   5.7
Tot. Al:  260.1    Ext. Al: 137.8    Fe:    42.0     Mn:    52.0    SiO2:  1.31


ID: 1A1-094   Name: HITCHINS POND                       State: NY  Date: 25OCT84
Sample Type: SPC/NRC/           Latitude: 44-00'37"N    Longitude: 74-54'20"W
Elevation:  613   Surface Temp:  9.8  Stratified: MIXED      Site Depth:   2.1
Lake Area:       4 Watershed Area:     298 WA/LA:     76.4 Hydro Type: DRAINAGE
Residence Time:  0.02  Secchi Depth:  2.4   Turbidity:   0.4      Color:   25
Closed pH: 4.71        Equil. pH: 4.76             ANC:  -11.0         DOC:  3.61
Closed DIC:  0.99   Equil. DIC:  0.14   Meas. Cond:  23.2   Cal. Cond:  23.8
Ca:   54.8          Mg:    16.5       Na:    23.1         K:   6.3      NH4:  2.7
SO4:  123.9        HCO3:     1.2      Cl:    12.9       NO3:   5.3        F:  3.1
Sum Cations:  121.7  Sum Anions:   146.4  Cations/Anions: 0.83   Tot. P:   3.9
Tot. Al:  405.7    Ext. Al: 238.6    Fe:   132.0     Mn:    44.0    SiO2:  3.39


ID: 1A1-095   Name: TOAD POND                           State: NY  Date: 24OCT84
Sample Type: SPC/NRC/           Latitude: 44-01'10"N    Longitude: 74-56'00"W
Elevation:  582   Surface Temp: 11.6  Stratified: MIXED      Site Depth:   1.2
Lake Area:      10 Watershed Area:      78 WA/LA:      8.2 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  1.5   Turbidity:   0.1      Color:   10
Closed pH: 4.86        Equil. pH: 4.87             ANC:   -8.4         DOC:  2.70
Closed DIC:  0.39   Equil. DIC:  0.10   Meas. Cond:  22.9   Cal. Cond:  22.3
Ca:   55.5          Mg:    17.9       Na:    20.2         K:   7.3      NH4:  1.8
SO4:  129.2        HCO3:     0.9      Cl:     8.1       NO3:   0.3        F:  8.0
Sum Cations:  116.9  Sum Anions:   146.5  Cations/Anions: 0.80   Tot. P:   2.5
Tot. Al:  324.4    Ext. Al: 227.3    Fe:    52.0     Mn:    29.0    SiO2:  0.93


ID: 1A1-097   Name: CROOKED LAKE                        State: NY  Date: 25OCT84
Sample Type: SPC/NRC/           Latitude: 43-59'40"N    Longitude: 74-56'20"W
Elevation:  624   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   5.2
Lake Area:      47 Watershed Area:     440 WA/LA:      9.4 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  4.5   Turbidity:   0.1      Color:    0
Closed pH: 4.73        Equil. pH: 4.78             ANC:  -12.6         DOC:  0.88
Closed DIC:  0.30   Equil. DIC:  0.13   Meas. Cond:  23.7   Cal. Cond:  23.5
Ca:   55.5          Mg:    16.6       Na:    16.4         K:   7.8      NH4:  2.5
SO4:  128.9        HCO3:     0.6      Cl:     7.6       NO3:   9.2        F:  3.4
Sum Cations:  115.8  Sum Anions:   149.6  Cations/Anions: 0.77   Tot. P:   0.0
Tot. Al:  278.7    Ext. Al: 200.9    Fe:    38.0     Mn:    62.0    SiO2:  0.19


ID: 1A1-098   Name: EAST POND                           State: NY  Date: 11OCT84
Sample Type: SPC/NRC/           Latitude: 44-22'50"N    Longitude: 74-25'50"W
Elevation:  528   Surface Temp: 10.8  Stratified: MIXED      Site Depth:   1.8
Lake Area:      29 Watershed Area:     298 WA/LA:     10.4 Hydro Type: DRAINAGE
Residence Time:  0.15  Secchi Depth:  2.1   Turbidity:   0.5      Color:   30
Closed pH: 6.90        Equil. pH: 7.23             ANC:  128.7         DOC:  7.57
Closed DIC:  1.54   Equil. DIC:  1.37   Meas. Cond:  29.0   Cal. Cond:  30.9
Ca:  165.7          Mg:    60.1       Na:    49.6         K:   8.3      NH4:  1.7
SO4:  108.8        HCO3:   112.3      Cl:     8.9       NO3:   0.8        F:  2.5
Sum Cations:  285.5  Sum Anions:   233.5  Cations/Anions: 1.22   Tot. P:  11.3
Tot. Al:  148.4    Ext. Al:  11.7    Fe:    15.0     Mn:     0.0    SiO2:  4.04
```

(continued)

TABLE 4-1 (continued)

```
ID: 1A1-099   Name: CEDAR LAKES                      State: NY  Date: 30OCT84
Sample Type: SPC/NRC/           Latitude: 43-37'15"N    Longitude: 74-33'00"W
Elevation:  744  Surface Temp: 11.4  Stratified: MIXED     Site Depth:   3.0
Lake Area:     141 Watershed Area:    673 WA/LA:      4.8 Hydro Type: DRAINAGE
Residence Time:  0.37  Secchi Depth:  3.0  Turbidity:   0.6     Color:   20
Closed pH: 6.19        Equil. pH: 6.60             ANC:   24.0        DOC:  3.31
Closed DIC:  0.73  Equil. DIC:  0.35   Meas. Cond:  18.7  Cal. Cond:  19.1
Ca:   87.6          Mg:   32.8       Na:   18.1        K:   5.5      NH4:  2.1
SO4:  107.2       HCO3:   24.5       Cl:    7.3      NO3:   1.9        F:  2.2
Sum Cations:  146.8  Sum Anions:  143.1  Cations/Anions: 1.03   Tot. P:   6.3
Tot. Al:  185.5    Ext. Al:   9.9    Fe:   40.0     Mn:   17.0    SiO2:  1.94

ID: 1A1-100   Name: CURTIS POND                      State: NY  Date: 13OCT84
Sample Type: SPC/NRC/           Latitude: 44-09'35"N    Longitude: 74-45'37"W
Elevation:  559  Surface Temp: 12.5  Stratified: MIXED     Site Depth:   8.5
Lake Area:       7 Watershed Area:     57 WA/LA:      8.3 Hydro Type: DRAINAGE
Residence Time:  0.71  Secchi Depth:  5.3  Turbidity:   0.4     Color:   20
Closed pH: 5.06        Equil. pH: 5.15             ANC:   -1.4        DOC:  2.26
Closed DIC:  0.57  Equil. DIC:  0.13   Meas. Cond:  21.8  Cal. Cond:  20.5
Ca:   72.6          Mg:   17.7       Na:   23.2        K:   5.5      NH4:  3.8
SO4:  122.2       HCO3:    1.8       Cl:    6.1      NO3:   1.3        F:  4.6
Sum Cations:  130.7  Sum Anions:  135.9  Cations/Anions: 0.96   Tot. P:   2.1
Tot. Al:  205.5    Ext. Al:  50.8    Fe:  132.0     Mn:   54.0    SiO2:  0.39

ID: 1A1-101   Name: EAST CHARLEY POND                State: NY  Date: 25OCT84
Sample Type: SPC/NRC/           Latitude: 44-02'45"N    Longitude: 74-41'00"W
Elevation:  582  Surface Temp: 12.1  Stratified: MIXED     Site Depth:   6.4
Lake Area:      10 Watershed Area:     91 WA/LA:      9.5 Hydro Type: DRAINAGE
Residence Time:  0.47  Secchi Depth:  4.0  Turbidity:   0.7     Color:   15
Closed pH: 6.29        Equil. pH: 6.84             ANC:   55.9        DOC:  2.85
Closed DIC:  1.26  Equil. DIC:  0.63   Meas. Cond:  20.8  Cal. Cond:  23.3
Ca:  126.3          Mg:   26.2       Na:   22.2        K:   6.6      NH4:  1.7
SO4:  116.2       HCO3:   48.3       Cl:    8.5      NO3:   0.6        F:  7.2
Sum Cations:  183.3  Sum Anions:  180.8  Cations/Anions: 1.01   Tot. P:   4.2
Tot. Al:   26.8    Ext. Al:   4.3    Fe:   23.0     Mn:   44.0    SiO2:  1.91

ID: 1A1-102   Name: HEART LAKE                       State: NY  Date: 12OCT84
Sample Type: SPC/LTM/           Latitude: 44-10'56"N    Longitude: 73-58'10"W
Elevation:  660  Surface Temp: 12.1  Stratified: MIXED     Site Depth:  11.2
Lake Area:      11 Watershed Area:     60 WA/LA:      5.4 Hydro Type: DRAINAGE
Residence Time:  1.65  Secchi Depth:  3.3  Turbidity:   0.2     Color:   10
Closed pH: 6.33        Equil. pH: 6.46             ANC:   42.4        DOC:  3.03
Closed DIC:  0.88  Equil. DIC:  0.52   Meas. Cond:  18.5  Cal. Cond:  21.1
Ca:  108.5          Mg:   21.8       Na:   21.1        K:   3.3      NH4:  1.4
SO4:  119.9       HCO3:   35.6       Cl:    8.2      NO3:   1.7        F:  0.6
Sum Cations:  156.4  Sum Anions:  166.1  Cations/Anions: 0.94   Tot. P:   2.8
Tot. Al:  105.8    Ext. Al:  15.8    Fe:    0.0     Mn:    7.0    SiO2:  3.23

ID: 1A1-103   Name: BIG MOOSE LAKE                   State: NY  Date: 16OCT84
Sample Type: SPC/LTM/           Latitude: 43-49'45"N    Longitude: 74-51'00"W
Elevation:  556  Surface Temp: 13.8  Stratified: MIXED     Site Depth:   7.3
Lake Area:     504 Watershed Area:   9272 WA/LA:     18.4 Hydro Type: DRAINAGE
Residence Time:  0.24  Secchi Depth:  6.0  Turbidity:   0.2     Color:   15
Closed pH: 5.24        Equil. pH: 5.39             ANC:    5.2        DOC:  2.35
Closed DIC:  0.40  Equil. DIC:  0.16   Meas. Cond:  24.5  Cal. Cond:  23.7
Ca:   91.3          Mg:   26.1       Na:   27.0        K:  11.5      NH4:  2.3
SO4:  132.4       HCO3:    3.0       Cl:   10.4      NO3:  18.4        F:  3.8
Sum Cations:  162.4  Sum Anions:  167.9  Cations/Anions: 0.97   Tot. P:   0.0
Tot. Al:  258.2    Ext. Al:  36.9    Fe:    0.0     Mn:   61.0    SiO2:  3.14
```

(continued)

TABLE 4-1 (continued)

```
ID: 1A1-105   Name: CASCADE LAKE                      State: NY  Date: 14OCT84
Sample Type: SPC/LTM/           Latitude: 43-47'28"N   Longitude: 74-48'15'W
Elevation:  553   Surface Temp: 13.3  Stratified: WEAK      Site Depth:  13.4
Lake Area:     37 Watershed Area:     482 WA/LA:     13.1 Hydro Type: DRAINAGE
Residence Time:  0.62  Secchi Depth:  5.7   Turbidity:   0.3      Color:   20
Closed pH: 5.56       Equil. pH: 5.67             ANC:     9.9        DOC:  2.49
Closed DIC:  0.44   Equil. DIC:  0.17    Meas. Cond:  25.0   Cal. Cond:  23.7
Ca:  100.9         Mg:    27.9        Na:    27.8       K:  10.9       NH4:   1.4
SO4:  130.7      HCO3:     5.0       Cl:    11.1       NO3:  18.0         F:   4.0
Sum Cations:  171.6  Sum Anions:  168.8  Cations/Anions: 1.02   Tot. P:   1.3
Tot. Al:  281.0    Ext. Al:  45.3    Fe:    33.0     Mn:    62.0    SiO2:  3.53

.ID: 1A1-106   Name: DART LAKE                         State: NY  Date: 14OCT84
Sample Type: SPC/LTM/           Latitude: 43-47'50"N   Longitude: 74-51'30"W
Elevation:  536   Surface Temp: 13.4  Stratified: MIXED     Site Depth:   9.1
Lake Area:      50 Watershed Area:   1476 WA/LA:     29.6 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  6.1   Turbidity:   0.3      Color:   10
Closed pH: 5.57       Equil. pH: 5.64             ANC:     9.4        DOC:  2.46
Closed DIC:  0.36   Equil. DIC:  0.17    Meas. Cond:  24.6   Cal. Cond:  23.4
Ca:    93.9        Mg:    28.0        Na:    28.3       K:  11.0       NH4:   1.6
SO4:  130.4      HCO3:     5.8       Cl:    11.1       NO3:  18.2         F:   3.7
Sum Cations:  165.3  Sum Anions:  169.2  Cations/Anions: 0.98   Tot. P:   6.8
Tot. Al:  172.9    Ext. Al:  44.4    Fe:    69.0     Mn:    62.0    SiO2:  3.43

ID: 1A1-107   Name: LITTLE ECHO POND                  State: NY  Date: 12OCT84
Sample Type: SPC/LTM/           Latitude: 44-18'20"N   Longitude: 74-21'27"W
Elevation:  482   Surface Temp:  9.9  Stratified: MIXED     Site Depth:   3.4
Lake Area:       1 Watershed Area:      5 WA/LA:      5.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  0.6   Turbidity:   1.3      Color:  150
Closed pH: 4.18       Equil. pH: 4.19             ANC:   -63.2        DOC: 14.28
Closed DIC:  3.25   Equil. DIC:  0.14    Meas. Cond:  33.5   Cal. Cond:  31.4
Ca:    36.6        Mg:    13.8        Na:     6.0       K:   4.5       NH4:   1.4
SO4:   67.9      HCO3:     0.7       Cl:     7.2       NO3:   1.1         F:   1.2
Sum Cations:  124.0  Sum Anions:   78.0  Cations/Anions: 1.59   Tot. P:  11.1
Tot. Al:   83.2    Ext. Al:   7.7    Fe:   301.0     Mn:    34.0    SiO2:  0.77

ID: 1A1-108   Name: MERRIAM POND                      State: NY  Date: 14OCT84
Sample Type: SPC/LTM/           Latitude: 43-51'28"N   Longitude: 74-50'45"W
Elevation:  655   Surface Temp: 11.4  Stratified: MIXED     Site Depth:   3.3
Lake Area:       8 Watershed Area:    119 WA/LA:     15.9 Hydro Type: DRAINAGE
Residence Time:  0.13  Secchi Depth:  1.7   Turbidity:   1.6      Color:   80
Closed pH: 4.88       Equil. pH: 4.88             ANC:    -6.0        DOC:  5.47
Closed DIC:  1.34   Equil. DIC:  0.67    Meas. Cond:  20.3   Cal. Cond:  18.1
Ca:    34.5        Mg:    13.2        Na:    15.8       K:  10.3       NH4:  14.9
SO4:   88.6      HCO3:     1.5       Cl:     9.0       NO3:   1.5         F:   1.8
Sum Cations:  102.0  Sum Anions:  102.5  Cations/Anions: 0.99   Tot. P:   6.4
Tot. Al:  329.3    Ext. Al: 130.1    Fe:   105.0     Mn:    27.0    SiO2:  1.12

ID: 1A1-109   Name: MOSS LAKE                         State: NY  Date: 14OCT84
Sample Type: SPC/LTM/           Latitude: 43-47'10"N   Longitude: 74-51'00"W
Elevation:  536   Surface Temp: 13.0  Stratified: WEAK      Site Depth:  12.5
Lake Area:      45 Watershed Area:   1248 WA/LA:     27.8 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  5.4   Turbidity:   0.3      Color:   20
Closed pH: 6.77       Equil. pH: 7.18             ANC:    96.9        DOC:  2.69
Closed DIC:  1.41   Equil. DIC:  1.06    Meas. Cond:  33.9   Cal. Cond:  32.5
Ca:  155.7         Mg:    51.4        Na:    46.2       K:  13.9       NH4:   1.8
SO4:  130.2      HCO3:    88.9       Cl:    13.6       NO3:  15.5         F:   8.2
Sum Cations:  269.1  Sum Anions:  256.5  Cations/Anions: 1.05   Tot. P:   6.0
Tot. Al:  110.9    Ext. Al:   5.7    Fe:    18.0     Mn:     2.0    SiO2:  6.17
```

(continued)

TABLE 4-1 (continued)

```
ID: 1A1-110   Name: LAKE RONDAXE                        State: NY  Date: 14OCT84
Sample Type: SPC/LTM/            Latitude: 43-45'50"N   Longitude: 74-54'20"W
Elevation:  524   Surface Temp: 13.2  Stratified: MIXED      Site Depth:   8.2
Lake Area:      68 Watershed Area:  13937 WA/LA:   204.3 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  4.9   Turbidity:   0.3       Color:   20
Closed pH: 6.40        Equil. pH: 6.84             ANC:   50.4         DOC:  2.40
Closed DIC:  0.97   Equil. DIC:  0.61    Meas. Cond:  27.7   Cal. Cond:  26.3
Ca:  119.0           Mg:    38.4         Na:    36.8          K:  12.9       NH4:   1.2
SO4:  126.9       HCO3:    42.5        Cl:    12.3        NO3:  13.4           F:   5.3
Sum Cations:  208.6  Sum Anions:  200.4  Cations/Anions: 1.04   Tot. P:   0.2
Tot. Al:   87.7    Ext. Al:  16.0     Fe:    30.0       Mn:    15.0     SiO2:  4.23

ID: 1A1-111   Name: SQUASH POND                         State: NY  Date: 16OCT84
Sample Type: SPC/LTM/            Latitude: 43-49'35"N   Longitude: 74-53'23'W
Elevation:  649   Surface Temp:  8.9  Stratified: MIXED      Site Depth:   4.9
Lake Area:       2 Watershed Area:      52 WA/LA:    30.6 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  1.6   Turbidity:   1.0       Color:  100
Closed pH: 4.52        Equil. pH: 4.60             ANC:  -17.7         DOC:  7.33
Closed DIC:  2.99   Equil. DIC:  0.16    Meas. Cond:  25.3   Cal. Cond:  23.0
Ca:   38.2           Mg:    12.8         Na:    17.0          K:  14.5       NH4:  10.5
SO4:   90.6       HCO3:     2.0        Cl:     8.7        NO3:   0.5           F:   2.1
Sum Cations:  119.3  Sum Anions:  103.8  Cations/Anions: 1.15   Tot. P:   3.5
Tot. Al:  685.0    Ext. Al: 152.8     Fe:   272.0       Mn:    33.0     SiO2:  2.53

ID: 1A1-112   Name: WEST POND                           State: NY  Date: 14OCT84
Sample Type: SPC/LTM/            Latitude: 43-48'40"N   Longitude: 74-52'45"W
Elevation:  579   Surface Temp: 13.3  Stratified: MIXED      Site Depth:   2.7
Lake Area:       9 Watershed Area:     117 WA/LA:    13.1 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  2.5   Turbidity:   0.8       Color:   55
Closed pH: 5.31        Equil. pH: 5.52             ANC:   10.1         DOC:  4.92
Closed DIC:  0.97   Equil. DIC:  0.22    Meas. Cond:  18.7   Cal. Cond:  17.6
Ca:   68.5           Mg:    22.2         Na:    25.3          K:   5.7       NH4:   4.9
SO4:   95.0       HCO3:     5.8        Cl:     7.5        NO3:   3.2           F:   3.5
Sum Cations:  130.8  Sum Anions:  115.0  Cations/Anions: 1.14   Tot. P:   4.9
Tot. Al:  160.0    Ext. Al:  56.6     Fe:   144.0       Mn:    29.0     SiO2:  0.49

ID: 1A1-113   Name: BUBB LAKE                           State: NY  Date: 14OCT84
Sample Type: SPC/LTM/            Latitude: 43-46'15"N   Longitude: 74-51'15"W
Elevation:  553   Surface Temp: 13.6  Stratified: MIXED      Site Depth:   2.7
Lake Area:      19 Watershed Area:     179 WA/LA:     9.7 Hydro Type: DRAINAGE
Residence Time:  0.17  Secchi Depth:  2.7   Turbidity:   0.4       Color:   10
Closed pH: 6.66        Equil. pH: 6.98             ANC:   65.8         DOC:  3.10
Closed DIC:  0.98   Equil. DIC:  0.73    Meas. Cond:  24.6   Cal. Cond:  23.7
Ca:  110.8           Mg:    37.9         Na:    36.4          K:   9.3       NH4:   2.9
SO4:  105.0       HCO3:    62.2        Cl:     7.5        NO3:   3.5           F:   5.6
Sum Cations:  197.5  Sum Anions:  183.8  Cations/Anions: 1.07   Tot. P:   0.3
Tot. Al:   32.0    Ext. Al:   6.2     Fe:    64.0       Mn:    11.0     SiO2:  1.61

ID: 1A2-066   Name: JOCKEYBUSH LAKE                     State: NY  Date: 04NOV84
Sample Type: SPC/NRC/            Latitude: 43-18'15"N   Longitude: 74-35'45"W
Elevation:  599   Surface Temp:  9.7  Stratified: MIXED      Site Depth:   3.7
Lake Area:      17 Watershed Area:     148 WA/LA:     8.6 Hydro Type: DRAINAGE
Residence Time:  0.30  Secchi Depth:  3.5   Turbidity:   1.2       Color:   10
Closed pH: 5.28        Equil. pH: 5.40             ANC:    5.5         DOC:  1.71
Closed DIC:  0.44   Equil. DIC:  0.17    Meas. Cond:  19.0   Cal. Cond:  20.1
Ca:   69.5           Mg:    27.5         Na:    19.0          K:   5.2       NH4:   1.9
SO4:  130.1       HCO3:     3.1        Cl:     9.0        NO3:   1.5           F:   2.0
Sum Cations:  127.8  Sum Anions:  145.7  Cations/Anions: 0.88   Tot. P:   2.7
Tot. Al:  130.4    Ext. Al:  43.1     Fe:    18.5       Mn:    42.5     SiO2:  0.88
```

(continued)

TABLE 4-1 (continued)

```
ID: 1A2-067   Name: MECO LAKE                           State: NY  Date: 31OCT84
Sample Type: SPC/NRC/            Latitude: 43-17'00"N    Longitude: 74-25'33"W
Elevation:  642   Surface Temp: 11.0  Stratified: MIXED      Site Depth:   3.2
Lake Area:        4 Watershed Area:      67 WA/LA:      16.3 Hydro Type: DRAINAGE
Residence Time:  0.17  Secchi Depth:  2.8   Turbidity:   0.8      Color:    25
Closed pH: 4.89        Equil. pH: 5.06                ANC:   -4.2       DOC:  4.15
Closed DIC:  0.52   Equil. DIC:  0.17    Meas. Cond:  20.6   Cal. Cond:  20.0
Ca:   51.2          Mg:   21.8        Na:    22.9          K:   2.8      NH4:   1.1
SO4:  110.2       HCO3:    1.7        Cl:    9.4        NO3:   0.5         F:   1.6
Sum Cations:  113.0  Sum Anions:   123.3  Cations/Anions: 0.92   Tot. P:   5.6
Tot. Al:  436.9    Ext. Al: 148.8    Fe:    37.0      Mn:    30.0    SiO2:  1.74
```

```
ID: 1A2-068   Name: ROCK LAKE                           State: NY  Date: 31OCT84
Sample Type: SPC/NRC/            Latitude: 43-19'42"N    Longitude: 74-35'30"W
Elevation:  552   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   5.8
Lake Area:       11 Watershed Area:     210 WA/LA:      19.4 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  3.8   Turbidity:   0.4      Color:    15
Closed pH: 5.11        Equil. pH: 5.24                ANC:    2.3       DOC:  2.97
Closed DIC:  0.90   Equil. DIC:  0.15    Meas. Cond:  18.6   Cal. Cond:  19.5
Ca:   62.6          Mg:   25.4        Na:    19.4          K:   4.5      NH4:   3.9
SO4:  115.7       HCO3:    3.1        Cl:    8.5        NO3:   2.8         F:   1.8
Sum Cations:  122.9  Sum Anions:   131.9  Cations/Anions: 0.93   Tot. P:   5.7
Tot. Al:  352.8    Ext. Al: 142.2    Fe:    29.0      Mn:    42.0    SiO2:  1.00
```

```
ID: 1A2-069   Name: SILVER LAKE                         State: NY  Date: 31OCT84
Sample Type: SPC/NRC/            Latitude: 43-17'43"N    Longitude: 74-25'50"W
Elevation:  632   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   7.1
Lake Area:       30 Watershed Area:     290 WA/LA:       9.8 Hydro Type: DRAINAGE
Residence Time:  0.51  Secchi Depth:  7.2   Turbidity:   0.1      Color:    10
Closed pH: 5.11        Equil. pH: 5.21                ANC:    0.2       DOC:  0.98
Closed DIC:  0.38   Equil. DIC:  0.15    Meas. Cond:  20.4   Cal. Cond:  20.8
Ca:   59.8          Mg:   26.0        Na:    22.7          K:   5.5      NH4:   1.2
SO4:  128.2       HCO3:    1.8        Cl:    8.8        NO3:   5.2         F:   1.7
Sum Cations:  123.1  Sum Anions:   145.7  Cations/Anions: 0.84   Tot. P:   3.5
Tot. Al:  242.9    Ext. Al: 185.7    Fe:    23.0      Mn:    79.0    SiO2:  2.90
```

```
ID: 1A2-070   Name: (UPPER)LOOMIS POND                  State: NY  Date: 30OCT84
Sample Type: SPC/NRC/            Latitude: 43-18'15"N    Longitude: 74-29'40"W
Elevation:  691   Surface Temp: 11.8  Stratified: MIXED      Site Depth:  12.0
Lake Area:       11 Watershed Area:      98 WA/LA:       9.0 Hydro Type: DRAINAGE
Residence Time:  0.94  Secchi Depth:  7.8   Turbidity:   0.2      Color:    15
Closed pH: 4.84        Equil. pH: 4.87                ANC:   -7.3       DOC:  1.56
Closed DIC:  0.39   Equil. DIC:  0.13    Meas. Cond:  20.3   Cal. Cond:  20.4
Ca:   45.1          Mg:   20.6        Na:    16.8          K:   4.5      NH4:   3.1
SO4:  120.1       HCO3:    1.2        Cl:    8.5        NO3:   5.2         F:   1.8
Sum Cations:  102.8  Sum Anions:   136.7  Cations/Anions: 0.75   Tot. P:   0.0
Tot. Al:  248.5    Ext. Al: 153.3    Fe:     0.0      Mn:    41.0    SiO2:  0.68
```

```
ID: 1A2-071   Name: STREETER LAKE                       State: NY  Date: 24OCT84
Sample Type: SPC/NRC/            Latitude: 44-06'28"N    Longitude: 75-04'20"W
Elevation:  453   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   4.9
Lake Area:       28 Watershed Area:     295 WA/LA:      10.6 Hydro Type: DRAINAGE
Residence Time:  0.33  Secchi Depth:  1.4   Turbidity:   1.4      Color:    90
Closed pH: 6.30        Equil. pH: 6.90                ANC:   77.0       DOC:  9.09
Closed DIC:  1.29   Equil. DIC:  0.62    Meas. Cond:  24.3   Cal. Cond:  24.2
Ca:  133.5          Mg:   45.7        Na:    35.9          K:  10.6      NH4:   1.8
SO4:   95.0       HCO3:   51.5        Cl:    8.9        NO3:   0.7         F:   6.6
Sum Cations:  228.0  Sum Anions:   162.8  Cations/Anions: 1.40   Tot. P:  10.4
Tot. Al:  107.1    Ext. Al:  28.1    Fe:   351.0      Mn:    45.0    SiO2:  4.27
```

(continued)

TABLE 4-1 (continued)

```
ID: 1A2-072   Name: SAND POND                         State: NY  Date: 24OCT84
Sample Type: SPC/NRC/           Latitude: 43-56'58"N   Longitude: 75-09'40"W
Elevation:  498   Surface Temp: 12.1  Stratified: MIXED      Site Depth:   2.9
Lake Area:      31 Watershed Area:     386 WA/LA:     12.5 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  1.6   Turbidity:   0.7      Color:    40
Closed pH: 5.08        Equil. pH: 5.12              ANC:     2.4        DOC:  5.13
Closed DIC:  0.84   Equil. DIC:  0.14    Meas. Cond:  18.9   Cal. Cond:  19.5
Ca:   61.4          Mg:    21.0        Na:    25.4        K:    7.1      NH4:   2.3
SO4:  104.6        HCO3:     1.9        Cl:     8.3       NO3:    3.7         F:   6.2
Sum Cations:  126.0  Sum Anions:  124.6  Cations/Anions: 1.01   Tot. P:    6.8
Tot. Al:  250.8    Ext. Al:  43.5     Fe:   259.0      Mn:    40.0    SiO2:  1.12

ID: 1A2-073   Name: CLOCKMILL POND                    State: NY  Date: 31OCT84
Sample Type: SPC/NRC/           Latitude: 43-20'25"N   Longitude: 74-35'15"W
Elevation:  550   Surface Temp: 11.5  Stratified: MIXED      Site Depth:   5.8
Lake Area:      19 Watershed Area:     549 WA/LA:     29.4 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  3.1   Turbidity:   0.6      Color:    30
Closed pH: 4.90        Equil. pH: 4.92              ANC:    -5.9        DOC:  3.93
Closed DIC:  0.76   Equil. DIC:  0.14    Meas. Cond:  20.0   Cal. Cond:  19.1
Ca:   49.6          Mg:    21.3        Na:    19.1        K:    3.8      NH4:   2.3
SO4:  101.0        HCO3:     1.6        Cl:     6.7       NO3:    0.8         F:   1.7
Sum Cations:  109.8  Sum Anions:  111.7  Cations/Anions: 0.98   Tot. P:   15.3
Tot. Al:  277.3    Ext. Al:  80.4     Fe:    63.0      Mn:    27.0    SiO2:  0.76

ID: 1A2-074   Name: DIAMOND LAKE                      State: NY  Date: 31OCT84
Sample Type: SPC/NRC/           Latitude: 43-18'25"N   Longitude: 74-43'50"W
Elevation:  627   Surface Temp: 11.9  Stratified: MIXED      Site Depth:   4.0
Lake Area:       9 Watershed Area:     189 WA/LA:     21.0 Hydro Type: DRAINAGE
Residence Time:  0.14  Secchi Depth:  4.5   Turbidity:   0.1      Color:    10
Closed pH: 4.78        Equil. pH: 4.81              ANC:   -10.0        DOC:  1.22
Closed DIC:  0.52   Equil. DIC:  0.13    Meas. Cond:  21.6   Cal. Cond:  21.4
Ca:   51.3          Mg:    17.4        Na:    17.0        K:    3.0      NH4:   1.2
SO4:  120.5        HCO3:     0.9        Cl:     6.3       NO3:    2.5         F:   1.7
Sum Cations:  106.5  Sum Anions:  132.0  Cations/Anions: 0.81   Tot. P:    3.6
Tot. Al:  329.4    Ext. Al: 189.6     Fe:    24.0      Mn:    33.0    SiO2:  0.28

ID: 1A2-075   Name: HOLMES LAKE                       State: NY  Date: 04NOV84
Sample Type: SPC/NRC/           Latitude: 43-11'22"N   Longitude: 74-25'55"W
Elevation:  562   Surface Temp:  9.4  Stratified: MIXED      Site Depth:   3.7
Lake Area:       7 Watershed Area:      80 WA/LA:     11.9 Hydro Type: DRAINAGE
Residence Time:  0.27  Secchi Depth:  3.6   Turbidity:   0.4      Color:    15
Closed pH: 7.13        Equil. pH: 7.44              ANC:   197.1        DOC:  2.89
Closed DIC:  2.44   Equil. DIC:  2.16    Meas. Cond:  35.8   Cal. Cond:  36.9
Ca:  153.2          Mg:   126.7        Na:    22.9        K:    4.5      NH4:   1.8
SO4:  132.7        HCO3:   173.5        Cl:    10.3       NO3:    2.6         F:   2.1
Sum Cations:  309.2  Sum Anions:  321.5  Cations/Anions: 0.96   Tot. P:    3.5
Tot. Al:   61.1    Ext. Al:  13.1     Fe:     0.0      Mn:     4.0    SiO2:  1.96

ID: 1A2-076   Name: BARNES LAKE                       State: NY  Date: 16OCT84
Sample Type: SPC/LTM/           Latitude: 43-34'00"N   Longitude: 75-13'40"W
Elevation:  393   Surface Temp: 13.3  Stratified: WEAK       Site Depth:   9.4
Lake Area:       3 Watershed Area:      26 WA/LA:     10.4 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.8   Turbidity:   1.2      Color:    25
Closed pH: 4.62        Equil. pH: 4.67              ANC:   -20.0        DOC:  4.87
Closed DIC:  0.20   Equil. DIC:  0.16    Meas. Cond:  16.6   Cal. Cond:  15.4
Ca:   25.4          Mg:     8.4        Na:     3.7        K:    6.5      NH4:   1.3
SO4:   55.2        HCO3:     0.9        Cl:     6.3       NO3:    0.2         F:   1.0
Sum Cations:   67.2  Sum Anions:   63.5  Cations/Anions: 1.06   Tot. P:    2.7
Tot. Al:   40.8    Ext. Al:  22.5     Fe:    70.0      Mn:    41.0    SiO2:  0.13
```

(continued)

TABLE 4-1 (continued)

```
ID: 1A2-077   Name: CLEAR POND                         State: NY  Date: 12OCT84
Sample Type: SPC/LTM/          Latitude: 44-00'00"N    Longitude: 73-49'20"W
Elevation:  582   Surface Temp: 12.8  Stratified: MIXED      Site Depth:   6.4
Lake Area:      71 Watershed Area:     557 WA/LA:      7.9 Hydro Type: CLOSED
Residence Time:   *   Secchi Depth:  6.0   Turbidity:   0.1     Color:    10
Closed pH: 6.88        Equil. pH: 7.23              ANC:  110.1         DOC:  2.79
Closed DIC:  1.38   Equil. DIC:  1.22   Meas. Cond:  27.1   Cal. Cond:  27.4
Ca:  171.3          Mg:   31.6       Na:    40.4        K:   2.9      NH4:  1.7
SO4:  104.0       HCO3:   91.2       Cl:     7.3      NO3:   1.4        F:  1.0
Sum Cations:  247.9  Sum Anions:  205.1  Cations/Anions: 1.21   Tot. P:   1.2
Tot. Al:  105.8    Ext. Al:    6.3    Fe:     0.0     Mn:    8.0    SiO2:  1.15

ID: 1A2-078   Name: OTTER LAKE                         State: NY  Date: 31OCT84
Sample Type: SPC/LTM/          Latitude: 43-11'17"N    Longitude: 74-30'00"W
Elevation:  503   Surface Temp: 12.2  Stratified: MIXED      Site Depth:   2.7
Lake Area:      16 Watershed Area:     321 WA/LA:     19.8 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  3.0   Turbidity:   0.1     Color:     0
Closed pH: 5.06        Equil. pH: 5.08              ANC:   -2.0         DOC:  1.39
Closed DIC:  0.30   Equil. DIC:  0.16   Meas. Cond:  22.3   Cal. Cond:  21.3
Ca:   54.9          Mg:   26.5       Na:    28.2        K:   3.8      NH4:  0.9
SO4:  137.5       HCO3:    1.5       Cl:     6.5      NO3:   0.4        F:  2.5
Sum Cations:  123.3  Sum Anions:  148.4  Cations/Anions: 0.83   Tot. P:   9.0
Tot. Al:  281.8    Ext. Al:  131.0    Fe:    25.0     Mn:   57.0    SiO2:  0.76

ID: 1A3-069   Name: BREWER LAKE                        State: NY  Date: 16OCT84
Sample Type: SPC/NRC/          Latitude: 43-35'32"N    Longitude: 75-05'15"W
Elevation:  540   Surface Temp: 13.6  Stratified: MIXED      Site Depth:   8.5
Lake Area:       7 Watershed Area:      54 WA/LA:      7.5 Hydro Type: DRAINAGE
Residence Time:  0.68  Secchi Depth:  5.3   Turbidity:   0.4     Color:    15
Closed pH: 5.31        Equil. pH: 5.52              ANC:    5.8         DOC:  2.70
Closed DIC:  0.61   Equil. DIC:  0.23   Meas. Cond:  21.7   Cal. Cond:  18.9
Ca:   52.6          Mg:   17.6       Na:    19.7        K:  11.2      NH4:  2.0
SO4:  132.7       HCO3:    3.8       Cl:     8.1      NO3:   0.3        F:  2.4
Sum Cations:  107.1  Sum Anions:  147.4  Cations/Anions: 0.73   Tot. P:   0.0
Tot. Al:  206.4    Ext. Al:   42.1    Fe:   168.0     Mn:   35.0    SiO2:  2.50

ID: 1B3-069   Name: SAWMILL POND                       State: NJ  Date: 18NOV84
Sample Type: SPC/DEW/          Latitude: 41-17'37"N    Longitude: 74-41'15"W
Elevation:  375   Surface Temp:  3.8  Stratified: MIXED      Site Depth:   1.8
Lake Area:       8 Watershed Area:     197 WA/LA:     24.9 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  2.1   Turbidity:   0.4     Color:    10
Closed pH: 7.26        Equil. pH: 7.35              ANC:  156.6         DOC:  2.80
Closed DIC:  1.74   Equil. DIC:  1.82   Meas. Cond:  46.1   Cal. Cond:  45.0
Ca:  186.1          Mg:  119.3       Na:    66.1        K:  21.2      NH4:  0.0
SO4:  156.4       HCO3:  126.4       Cl:    57.8      NO3:   0.4        F:  2.3
Sum Cations:  392.8  Sum Anions:  343.5  Cations/Anions: 1.14   Tot. P:   4.0
Tot. Al:   22.0    Ext. Al:    2.0    Fe:    70.0     Mn:    0.0    SiO2:  0.28

ID: 1B3-070   Name: LAKE OWASSA                        State: NJ  Date: 18NOV84
Sample Type: SPC/DEW/          Latitude: 41-09'15"N    Longitude: 74-48'45"W
Elevation:  265   Surface Temp:  6.0  Stratified: MIXED      Site Depth:   5.4
Lake Area:     107 Watershed Area:     979 WA/LA:      9.2 Hydro Type: DRAINAGE
Residence Time:  0.48  Secchi Depth:  1.4   Turbidity:   2.5     Color:    55
Closed pH: 7.03        Equil. pH: 7.50              ANC:  207.8         DOC:  8.80
Closed DIC:  2.44   Equil. DIC:  2.09   Meas. Cond:  85.4   Cal. Cond:  86.9
Ca:  326.3          Mg:  124.2       Na:   261.0        K:  14.3      NH4: 10.0
SO4:  165.7       HCO3:  153.7       Cl:   333.4      NO3:   3.7        F:  3.5
Sum Cations:  736.0  Sum Anions:  660.3  Cations/Anions: 1.11   Tot. P:  30.0
Tot. Al:   42.0    Ext. Al:   10.0    Fe:    50.0     Mn:    0.0    SiO2:  2.29
```

(continued)

TABLE 4-1 (continued)

```
ID: 1B3-071   Name: FAIRVIEW LAKE                         State: NJ  Date: 18NOV84
Sample Type: SPC/DEW/            Latitude: 41-04'35"N    Longitude: 74-54'45"W
Elevation:  277   Surface Temp:  6.6  Stratified: MIXED      Site Depth:    5.5
Lake Area:       40 Watershed Area:     303 WA/LA:      7.7 Hydro Type: DRAINAGE
Residence Time:  0.58  Secchi Depth:  2.0   Turbidity:   1.3      Color:    15
Closed pH: 7.53         Equil. pH: 7.63               ANC:  166.0          DOC:  2.70
Closed DIC:  2.02   Equil. DIC:  2.03    Meas. Cond:  70.7   Cal. Cond:  84.4
Ca:  251.5          Mg:   146.4       Na:   179.7           K:  16.6      NH4:   0.0
SO4:  348.1        HCO3:  139.3       Cl:  225.7          NO3:   0.0         F:   2.5
Sum Cations:  594.3  Sum Anions:  715.7  Cations/Anions: 0.83   Tot. P:  31.0
Tot. Al:   27.0    Ext. Al:   1.0    Fe:     0.0      Mn:    0.0    SiO2:  0.83

ID: 1B3-072   Name: LAKE MARCIA                           State: NJ  Date: 18NOV84
Sample Type: SPC/DEW/            Latitude: 41-19'03"N    Longitude: 74-40'02"W
Elevation:  479   Surface Temp:  4.5  Stratified: MIXED      Site Depth:    6.0
Lake Area:        7 Watershed Area:      21 WA/LA:      3.0 Hydro Type: DRAINAGE
Residence Time:  1.31  Secchi Depth:  5.0   Turbidity:   0.3      Color:     5
Closed pH: 7.64         Equil. pH: 8.12               ANC:  600.4          DOC:  2.30
Closed DIC:  6.88   Equil. DIC:  6.69    Meas. Cond: 134.2   Cal. Cond: 141.2
Ca:  536.9          Mg:   310.1       Na:   338.9           K:  21.7      NH4:   1.1
SO4:  182.0        HCO3:  533.8       Cl:  463.8          NO3:   1.9         F:   2.8
Sum Cations: 1208.8  Sum Anions: 1186.6  Cations/Anions: 1.02   Tot. P:   5.0
Tot. Al:   31.0    Ext. Al:   2.0    Fe:     0.0      Mn:   60.0    SiO2:  1.11

ID: 1B3-073   Name: GREEN POND                            State: NJ  Date: 16NOV84
Sample Type: SPC/DEW/            Latitude: 41-00'07"N    Longitude: 74-30'00"W
Elevation:  351   Surface Temp:  6.7  Stratified: MIXED      Site Depth:    1.5
Lake Area:      199 Watershed Area:     456 WA/LA:      2.3 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  1.7   Turbidity:   0.3      Color:     5
Closed pH: 7.04         Equil. pH: 7.12               ANC:   80.6          DOC:  1.70
Closed DIC:  0.93   Equil. DIC:  0.95    Meas. Cond:  52.4   Cal. Cond:  64.3
Ca:  161.7          Mg:    93.0       Na:   158.8           K:   7.4      NH4:   0.0
SO4:  271.9        HCO3:   60.1       Cl:  217.8          NO3:   0.1         F:   3.1
Sum Cations:  421.0  Sum Anions:  553.0  Cations/Anions: 0.76   Tot. P:   5.0
Tot. Al:    7.0    Ext. Al:   2.0    Fe:     0.0      Mn:    0.0    SiO2:  2.13

ID: 1B3-074   Name: RAMAPO LAKE                           State: NJ  Date: 16NOV84
Sample Type: SPC/DEW/            Latitude: 41-02'15"N    Longitude: 74-16'00"W
Elevation:  198   Surface Temp:  7.2  Stratified: MIXED      Site Depth:    1.5
Lake Area:       39 Watershed Area:     243 WA/LA:      6.3 Hydro Type: DRAINAGE
Residence Time:  0.18  Secchi Depth:  2.5   Turbidity:   0.3      Color:    10
Closed pH: 6.65         Equil. pH: 7.17               ANC:   70.4          DOC:  2.90
Closed DIC:  1.24   Equil. DIC:  0.91    Meas. Cond:  48.9   Cal. Cond:  51.6
Ca:  177.1          Mg:    79.8       Na:   127.0           K:  11.5      NH4:   0.0
SO4:  169.3        HCO3:   67.0       Cl:  166.2          NO3:   0.1         F:   6.9
Sum Cations:  395.7  Sum Anions:  409.6  Cations/Anions: 0.97   Tot. P:   5.0
Tot. Al:   20.0    Ext. Al:   6.0    Fe:    10.0      Mn:    0.0    SiO2:  0.59

ID: 1B3-075   Name: HANKS POND                            State: NJ  Date: 16NOV84
Sample Type: SPC/DEW/            Latitude: 41-05'00"N    Longitude: 74-26'15"W
Elevation:  315   Surface Temp:  8.5  Stratified: MIXED      Site Depth:    2.7
Lake Area:       32 Watershed Area:     184 WA/LA:      5.7 Hydro Type: DRAINAGE
Residence Time:  0.35  Secchi Depth:  2.8   Turbidity:   0.7      Color:    20
Closed pH: 6.61         Equil. pH: 7.06               ANC:   46.4          DOC:  2.10
Closed DIC:  0.87   Equil. DIC:  0.63    Meas. Cond:  30.3   Cal. Cond:  31.9
Ca:  106.3          Mg:    88.0       Na:    38.7           K:   8.2      NH4:   0.0
SO4:  165.7        HCO3:   42.0       Cl:   38.9          NO3:   0.0         F:   2.9
Sum Cations:  241.6  Sum Anions:  249.6  Cations/Anions: 0.97   Tot. P:   7.0
Tot. Al:   26.0    Ext. Al:   2.0    Fe:     0.0      Mn:   20.0    SiO2:  1.89
```

(continued)

TABLE 4-1 (continued)

```
ID: 1B3-076   Name: LAKE DENMARK                          State: NJ  Date: 16NOV84
Sample Type: SPC/DEW/            Latitude: 40-58'15"N   Longitude: 74-31'00"W
Elevation:  253   Surface Temp:  4.2  Stratified: MIXED      Site Depth:   1.2
Lake Area:     107 Watershed Area:   1064 WA/LA:     9.9 Hydro Type: DRAINAGE
Residence Time:  0.10  Secchi Depth:  1.5   Turbidity:   0.9       Color:   40
Closed pH: 7.03        Equil. pH: 7.42              ANC:  166.9        DOC:  6.70
Closed DIC:  1.98  Equil. DIC:  1.71   Meas. Cond:  62.4   Cal. Cond:  63.8
Ca:  190.1           Mg:  162.1       Na:  166.2         K:  16.6      NH4:   1.1
SO4:  123.7       HCO3:  127.2       Cl:  239.8       NO3:   2.2         F:   4.3
Sum Cations:  536.2  Sum Anions:  497.2  Cations/Anions: 1.08  Tot. P:   7.0
Tot. Al:     3.0   Ext. Al:    9.0   Fe:   80.0      Mn:     0.0   SiO2:  7.68

ID: 1B3-077   Name: CLYDE POTTS RESERVOIR                 State: NJ  Date: 16NOV84
Sample Type: SPC/DEW/            Latitude: 40-48'22"N   Longitude: 74-35'00"W
Elevation:  204   Surface Temp:  9.6  Stratified: MIXED      Site Depth:   2.7
Lake Area:      18 Watershed Area:    528 WA/LA:    29.2 Hydro Type! RESERVOIR
Residence Time:  0.08  Secchi Depth:  2.5   Turbidity:   1.0       Color:   10
Closed pH: 7.28        Equil. pH: 7.61              ANC:  198.0        DOC:  2.60
Closed DIC:  2.49  Equil. DIC:  2.36   Meas. Cond:  78.6   Cal. Cond:  82.7
Ca:  247.5           Mg:  151.4       Na:  243.6         K:  21.2      NH4:   0.0
SO4:  183.2       HCO3:  166.3       Cl:  313.7       NO3:   0.0         F:   3.3
Sum Cations:  663.8  Sum Anions:  666.7  Cations/Anions: 1.00  Tot. P:   7.0
Tot. Al:    17.0   Ext. Al:    2.0   Fe:   40.0      Mn:     0.0   SiO2: 11.30

ID: 1B3-078   Name: SPLITROCK RESERVOIR                   State: NJ  Date: 16NOV84
Sample Type: SPC/DEW/            Latitude: 40-59'00"N   Longitude: 74-26'15"W
Elevation:  253   Surface Temp:  8.2  Stratified: MIXED      Site Depth:   5.5
Lake Area:     216 Watershed Area:   1251 WA/LA:     5.8 Hydro Type: RESERVOIR
Residence Time:  0.71  Secchi Depth:  1.8   Turbidity:   2.3       Color:   25
Closed pH: 6.97        Equil. pH: 7.40              ANC:  137.7        DOC:  2.90
Closed DIC:  1.83  Equil. DIC:  1.51   Meas. Cond:  42.4   Cal. Cond:  44.0
Ca:  156.2           Mg:  113.5       Na:   79.2         K:   8.4      NH4:   0.0
SO4:  170.5       HCO3:  115.7       Cl:   64.3       NO3:   1.8         F:   3.4
Sum Cations:  357.5  Sum Anions:  355.8  Cations/Anions: 1.00  Tot. P:  24.0
Tot. Al:    21.0   Ext. Al:    2.0   Fe:  170.0      Mn:   110.0   SiO2:  3.33

ID: 1B3-079   Name: CLINTON RESERVOIR                     State: NJ  Date: 16NOV84
Sample Type: SPC/DEW/            Latitude: 41-05'00"N   Longitude: 74-27'15"W
Elevation:  302   Surface Temp:  7.9  Stratified: MIXED      Site Depth:   4.9
Lake Area:     164 Watershed Area:   2600 WA/LA:    15.8 Hydro Type: RESERVOIR
Residence Time:  0.26  Secchi Depth:  1.8   Turbidity:   1.7       Color:   20
Closed pH: 6.79        Equil. pH: 7.08              ANC:   66.1        DOC:  3.00
Closed DIC:  1.05  Equil. DIC:  0.85   Meas. Cond:  36.2   Cal. Cond:  41.3
Ca:  141.2           Mg:   87.2       Na:   55.2         K:   8.4      NH4:   0.0
SO4:  215.7       HCO3:   57.5       Cl:   63.5       NO3:   0.0         F:   3.5
Sum Cations:  292.3  Sum Anions:  340.2  Cations/Anions: 0.86  Tot. P:  10.0
Tot. Al:    41.0   Ext. Al:    6.0   Fe:   40.0      Mn:     0.0   SiO2:  3.71

ID: 1B3-080   Name: BUTLER RESERVOIR                      State: NJ  Date: 16NOV84
Sample Type: SPC/DEW/            Latitude: 41-01'45"N   Longitude: 74-23'07"W
Elevation:  241   Surface Temp:  6.2  Stratified: MIXED      Site Depth:   3.4
Lake Area:      13 Watershed Area:    324 WA/LA:    24.4 Hydro Type: RESERVOIR
Residence Time:  0.12  Secchi Depth:  1.9   Turbidity:   1.2       Color:   25
Closed pH: 7.35        Equil. pH: 7.52              ANC:  274.5        DOC:  3.10
Closed DIC:  3.30  Equil. DIC:  2.99   Meas. Cond:  94.3   Cal. Cond:  99.3
Ca:  299.4           Mg:  176.9       Na:  328.4         K:  14.6      NH4:   0.0
SO4:  191.1       HCO3:  231.8       Cl:  376.9       NO3:   0.0         F:   3.2
Sum Cations:  819.3  Sum Anions:  803.3  Cations/Anions: 1.02  Tot. P:  12.0
Tot. Al:     6.0   Ext. Al:    3.0   Fe:  110.0      Mn:     0.0   SiO2:  0.69
```

(continued)

TABLE 4-1 (continued)

```
ID: 1C1-090   Name: GROUT POND                          State: VT  Date: 07NOV84
Sample Type: SPC/LTM/           Latitude: 43-02'44"N    Longitude: 72-56'45"W
Elevation:  681   Surface Temp:  8.0  Stratified: MIXED      Site Depth:   8.2
Lake Area:       33 Watershed Area:     153 WA/LA:      4.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.4   Turbidity:   0.4       Color:   20
Closed pH: 6.34         Equil. pH: 6.66            ANC:   41.4          DOC:  3.13
Closed DIC:  0.68   Equil. DIC:  0.39    Meas. Cond:  16.3   Cal. Cond:  15.4
Ca:   61.7           Mg:    28.1       Na:    22.0          K:  12.3        NH4:   0.9
SO4:    75.0       HCO3:    26.0       Cl:    10.5        NO3:   0.1          F:   1.4
Sum Cations:  125.3  Sum Anions:  113.0  Cations/Anions: 1.11   Tot. P:   4.0
Tot. Al:    56.7    Ext. Al:    7.6    Fe:    31.0      Mn:    17.0    SiO2:  1.80

ID: 1C1-091   Name: HARDWOOD POND                       State: VT  Date: 29OCT84
Sample Type: SPC/LTM/           Latitude: 44-28'05"N    Longitude: 72-30'00"W
Elevation:  478   Surface Temp: 11.0  Stratified: MIXED      Site Depth:   2.4
Lake Area:       19 Watershed Area:      96 WA/LA:      5.0 Hydro Type: DRAINAGE
Residence Time:  0.31  Secchi Depth:  2.0   Turbidity:   0.8       Color:   40
Closed pH: 6.03         Equil. pH: 6.48            ANC:   31.4          DOC:  4.16
Closed DIC:  0.81   Equil. DIC:  0.38    Meas. Cond:  18.3   Cal. Cond:  18.5
Ca:   79.5           Mg:    38.6       Na:    19.4          K:   3.9        NH4:   0.9
SO4:    99.3       HCO3:    34.6       Cl:     8.7        NO3:   0.1          F:   1.4
Sum Cations:  142.7  Sum Anions:  144.1  Cations/Anions: 0.99   Tot. P:  12.4
Tot. Al:  113.4    Ext. Al:   10.6    Fe:    44.0      Mn:    30.0    SiO2:  0.30

ID: 1C1-092   Name: LILY POND                           State: VT  Date: 23OCT84
Sample Type: SPC/LTM/           Latitude: 43-14'03"N    Longitude: 72-45'05"W
Elevation:  454   Surface Temp: 13.6  Stratified: MIXED      Site Depth:   1.5
Lake Area:       11 Watershed Area:     106 WA/LA:      9.3 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  1.7   Turbidity:   1.0       Color:   20
Closed pH: 6.51         Equil. pH: 6.79            ANC:   53.8          DOC:  4.66
Closed DIC:  0.80   Equil. DIC:  0.58    Meas. Cond:  19.2   Cal. Cond:  20.9
Ca:   73.9           Mg:    43.7       Na:    37.8          K:  16.6        NH4:   0.6
SO4:    98.1       HCO3:    47.7       Cl:    11.4        NO3:   0.4          F:   1.7
Sum Cations:  172.9  Sum Anions:  159.3  Cations/Anions: 1.09   Tot. P:  14.4
Tot. Al:  150.2    Ext. Al:   11.8    Fe:    21.0      Mn:    19.0    SiO2:  0.59

ID: 1C1-093   Name: LITTLE POND                         State: VT  Date: 06NOV84
Sample Type: SPC/LTM/           Latitude: 42-55'30"N    Longitude: 73-03'55"W
Elevation:  793   Surface Temp:  6.3  Stratified: MIXED      Site Depth:   2.4
Lake Area:        7 Watershed Area:     140 WA/LA:     19.7 Hydro Type: DRAINAGE
Residence Time:  0.09  Secchi Depth:  2.8   Turbidity:   0.3       Color:   15
Closed pH: 5.27         Equil. pH: 5.33            ANC:    4.7          DOC:  1.48
Closed DIC:  0.48   Equil. DIC:  0.17    Meas. Cond:  19.9   Cal. Cond:  19.5
Ca:   54.1           Mg:    20.6       Na:    30.2          K:  12.1        NH4:   1.1
SO4:  122.9        HCO3:     3.3       Cl:     9.7        NO3:   4.8          F:   2.1
Sum Cations:  122.4  Sum Anions:  142.8  Cations/Anions: 0.86   Tot. P:   5.4
Tot. Al:  190.0    Ext. Al:  112.7    Fe:    47.0      Mn:    47.0    SiO2:  2.67

ID: 1C1-094   Name: LITTLE POND                         State: VT  Date: 06NOV84
Sample Type: SPC/LTM/           Latitude: 43-07'25"N    Longitude: 72-56'30"W
Elevation:  753   Surface Temp:  5.7  Stratified: MIXED      Site Depth:   1.5
Lake Area:        5 Watershed Area:      52 WA/LA:      9.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.5   Turbidity:   0.6       Color:   30
Closed pH: 6.03         Equil. pH: 6.39            ANC:   27.9          DOC:  4.75
Closed DIC:  0.50   Equil. DIC:  0.27    Meas. Cond:  13.8   Cal. Cond:  14.3
Ca:   53.2           Mg:    23.2       Na:    24.2          K:  10.6        NH4:   1.2
SO4:    70.0       HCO3:    18.5       Cl:     9.3        NO3:   3.2          F:   1.5
Sum Cations:  113.3  Sum Anions:  102.5  Cations/Anions: 1.11   Tot. P:   4.7
Tot. Al:  108.0    Ext. Al:   31.0    Fe:    20.0      Mn:    15.0    SiO2:  1.02
```

(continued)

TABLE 4-1 (continued)

```
ID: 1C1-095   Name: STAMFORD POND                      State: VT  Date: 07NOV84
Sample Type: SPC/LTM/            Latitude: 42-49'20"N   Longitude: 73-03'55"W
Elevation:  753   Surface Temp:  5.1  Stratified: MIXED      Site Depth:   4.3
Lake Area:       4 Watershed Area:      96 WA/LA:     26.7 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  2.2   Turbidity:   0.9       Color:    35
Closed pH: 6.16        Equil. pH: 6.57               ANC:    38.2        DOC:  3.71
Closed DIC:  0.66   Equil. DIC:  0.34    Meas. Cond:  17.8   Cal. Cond:  18.9
Ca:    62.4          Mg:    27.6         Na:    43.9          K:  11.0      NH4:  1.1
SO4:    95.9        HCO3:    23.0        Cl:    15.8        NO3:   4.8         F:  2.5
Sum Cations:  146.7  Sum Anions:  141.9  Cations/Anions: 1.03   Tot. P:   8.4
Tot. Al:  201.0    Ext. Al:  36.4    Fe:    50.0      Mn:    19.0    SiO2:  3.51

ID: 1C1-096   Name: STRATTON POND                      State: VT  Date: 07NOV84
Sample Type: SPC/LTM/            Latitude: 43-06'15"N   Longitude: 72-58'10"W
Elevation:  779   Surface Temp:  6.4  Stratified: MIXED      Site Depth:   3.5
Lake Area:      18 Watershed Area:     104 WA/LA:      5.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.3   Turbidity:   0.9       Color:    25
Closed pH: 6.17        Equil. pH: 6.39               ANC:    29.3        DOC:  5.77
Closed DIC:  0.44   Equil. DIC:  0.29    Meas. Cond:  15.2   Cal. Cond:  15.3
Ca:    60.3          Mg:    27.3         Na:    23.4          K:  10.9      NH4:  0.7
SO4:    79.1        HCO3:    18.2        Cl:     8.9        NO3:   0.1         F:  1.4
Sum Cations:  123.4  Sum Anions:  107.7  Cations/Anions: 1.15   Tot. P:   5.5
Tot. Al:  104.2    Ext. Al:  19.0    Fe:    33.0      Mn:    15.0    SiO2:  1.87

ID: 1C1-097   Name: SUNSET LAKE                        State: VT  Date: 06NOV84
Sample Type: SPC/LTM/            Latitude: 42-55'10"N   Longitude: 72-41'00"W
Elevation:  421   Surface Temp:  9.7  Stratified: MIXED      Site Depth:   8.8
Lake Area:      38 Watershed Area:     210 WA/LA:      5.6 Hydro Type: DRAINAGE
Residence Time:  1.25  Secchi Depth:  4.3   Turbidity:   0.3       Color:    20
Closed pH: 6.18        Equil. pH: 6.42               ANC:    24.4        DOC:  3.04
Closed DIC:  0.48   Equil. DIC:  0.32    Meas. Cond:  16.6   Cal. Cond:  17.9
Ca:    64.1          Mg:    25.5         Na:    30.1          K:   5.5      NH4:  3.7
SO4:  100.0         HCO3:    15.9        Cl:    18.7        NO3:   0.1         F:  1.2
Sum Cations:  129.9  Sum Anions:  135.9  Cations/Anions: 0.96   Tot. P:   6.3
Tot. Al:   27.7    Ext. Al:   2.1    Fe:    12.0      Mn:    53.0    SiO2:  1.14

ID: 1C1-098   Name: UNKNOWN POND                       State: VT  Date: 18OCT84
Sample Type: SPC/LTM/            Latitude: 44-54'35"N   Longitude: 71-50'40"W
Elevation:  710   Surface Temp:  9.9  Stratified: MIXED      Site Depth:   3.0
Lake Area:       7 Watershed Area:     111 WA/LA:     16.6 Hydro Type: DRAINAGE
Residence Time:  0.12  Secchi Depth:  2.3   Turbidity:   0.8       Color:    55
Closed pH: 6.12        Equil. pH: 6.66               ANC:    37.8        DOC:  5.90
Closed DIC:  0.72   Equil. DIC:  0.43    Meas. Cond:  21.4   Cal. Cond:  22.6
Ca:  110.7           Mg:    31.6         Na:    23.5          K:   7.2      NH4: 11.0
SO4:  113.7         HCO3:    31.8        Cl:     7.9        NO3:   5.7         F:  3.2
Sum Cations:  184.6  Sum Anions:  162.2  Cations/Anions: 1.14   Tot. P:  16.6
Tot. Al:  492.2    Ext. Al:  14.6    Fe:   181.0      Mn:    29.0    SiO2:  1.51

ID: 1C1-099   Name: BEEBE POND                         State: VT  Date: 07NOV84
Sample Type: SPC/LTM/            Latitude: 43-03'12"N   Longitude: 73-01'58"W
Elevation:  719   Surface Temp:  6.0  Stratified: MIXED      Site Depth:   6.7
Lake Area:       4 Watershed Area:      67 WA/LA:     19.1 Hydro Type: DRAINAGE
Residence Time:  0.25  Secchi Depth:  1.1   Turbidity:   1.2       Color:    55
Closed pH: 4.87        Equil. pH: 4.90               ANC:    -1.7        DOC:  5.15
Closed DIC:  0.57   Equil. DIC:  0.13    Meas. Cond:  19.1   Cal. Cond:  17.9
Ca:    32.6          Mg:    20.5         Na:    20.1          K:   9.0      NH4:  4.5
SO4:    89.6        HCO3:     1.0        Cl:     8.7        NO3:   1.6         F:  1.3
Sum Cations:  100.6  Sum Anions:  102.2  Cations/Anions: 0.98   Tot. P:   7.4
Tot. Al:  360.3    Ext. Al: 112.7    Fe:   177.0      Mn:    41.0    SiO2:  2.46
```

(continued)

TABLE 4-1 (continued)

```
ID: 1C1-101   Name: BRANCH POND                        State: VT  Date: 07NOV84
Sample Type: SPC/LTM/           Latitude: 43-04'52"N   Longitude: 73-01'07"W
Elevation:  802   Surface Temp:  6.3  Stratified: MIXED      Site Depth:   3.4
Lake Area:      17 Watershed Area:    132 WA/LA:      7.7 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  1.1   Turbidity:   1.0     Color:   60
Closed pH: 5.17       Equil. pH: 5.27                ANC:    9.7        DOC:  7.02
Closed DIC:  0.80   Equil. DIC:  0.17    Meas. Cond:  16.8   Cal. Cond:  16.9
Ca:   44.8         Mg:    26.5        Na:    29.9          K:  10.0       NH4:  7.3
SO4:   83.2       HCO3:     3.4       Cl:   11.4        NO3:    3.6          F:  1.3
Sum Cations:  124.3  Sum Anions:  102.9  Cations/Anions: 1.21   Tot. P:  10.9
Tot. Al:  392.0    Ext. Al: 144.1     Fe:  174.0      Mn:    27.0     SiO2:  3.38

ID: 1C1-102   Name: WEARE RESERVOIR                    State: NH  Date: 01NOV84
Sample Type: SPC/NRC/           Latitude: 43-05'45"N   Longitude: 71-47'30"W
Elevation:  200   Surface Temp: 11.7  Stratified: MIXED      Site Depth:   6.1
Lake Area:     128 Watershed Area:   7462 WA/LA:     58.4 Hydro Type: RESERVOIR
Residence Time:  0.09  Secchi Depth:  2.5   Turbidity:   1.4     Color:   40
Closed pH: 6.35       Equil. pH: 7.27                ANC:  107.6        DOC:  4.53
Closed DIC:  1.97   Equil. DIC:  1.07    Meas. Cond:  35.4   Cal. Cond:  37.0
Ca:  117.7         Mg:    38.7        Na:  146.9           K:  11.4       NH4:  2.7
SO4:   80.8       HCO3:    98.4       Cl:  111.7        NO3:    0.0          F:  2.5
Sum Cations:  317.4  Sum Anions:  293.5  Cations/Anions: 1.08   Tot. P:  10.4
Tot. Al:  126.4    Ext. Al:    9.5    Fe:  203.0      Mn:     8.0     SiO2:  3.23

ID: 1C1-103   Name: LITTLE AVERILL POND                State: VT  Date: 18OCT84
Sample Type: SPC/LTM/           Latitude: 44-57'18"N   Longitude: 71-43'00"W
Elevation:  530   Surface Temp: 10.8  Stratified: STRONG     Site Depth:  31.1
Lake Area:     183 Watershed Area:   1168 WA/LA:      6.4 Hydro Type: DRAINAGE
Residence Time:  2.96  Secchi Depth:  6.4   Turbidity:   0.1     Color:   10
Closed pH: 7.25       Equil. pH: 7.34                ANC:  132.4        DOC:  2.64
Closed DIC:  1.63   Equil. DIC:  1.50    Meas. Cond:  29.2   Cal. Cond:  29.6
Ca:  167.4         Mg:    43.4        Na:    36.0          K:   7.4       NH4:  0.8
SO4:  106.5       HCO3:   121.1       Cl:     7.5       NO3:    0.7          F:  5.7
Sum Cations:  255.1  Sum Anions:  241.9  Cations/Anions: 1.05   Tot. P:   5.2
Tot. Al:   21.3    Ext. Al:    9.2    Fe:    2.0      Mn:     4.0     SiO2:  2.88

ID: 1C1-104   Name: LITTLE ROCK POND                   State: VT  Date: 06NOV84
Sample Type: SPC/LTM/           Latitude: 43-24'00"N   Longitude: 72-57'20"W
Elevation:  565   Surface Temp:  8.3  Stratified: MIXED      Site Depth:   7.0
Lake Area:       6 Watershed Area:     52 WA/LA:      8.5 Hydro Type: DRAINAGE
Residence Time:  0.57  Secchi Depth:  4.6   Turbidity:   0.4     Color:   28
Closed pH: 6.86       Equil. pH: 7.41                ANC:  179.4        DOC:  2.46
Closed DIC:  2.53   Equil. DIC:  1.99    Meas. Cond:  31.5   Cal. Cond:  31.3
Ca:  131.7         Mg:   106.9        Na:    16.7          K:  10.9       NH4:  2.4
SO4:   99.3       HCO3:   157.5       Cl:   11.9        NO3:    0.3          F:  1.4
Sum Cations:  268.6  Sum Anions:  270.7  Cations/Anions: 0.99   Tot. P:   4.1
Tot. Al:   68.6    Ext. Al:    6.7    Fe:   91.0      Mn:   134.5     SiO2:  2.01

ID: 1C1-105   Name: LAKE MANSFIELD                     State: VT  Date: 29OCT84
Sample Type: SPC/LTM/           Latitude: 44-28'20"N   Longitude: 72-49'00"W
Elevation:  351   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   5.2
Lake Area:      16 Watershed Area:    645 WA/LA:     41.3 Hydro Type: RESERVOIR
Residence Time:  0.09  Secchi Depth:  3.1   Turbidity:   1.0     Color:   25
Closed pH: 6.82       Equil. pH: 7.41                ANC:  156.2        DOC:  2.22
Closed DIC:  2.18   Equil. DIC:  1.88    Meas. Cond:  35.9   Cal. Cond:  38.7
Ca:  222.7         Mg:    47.5        Na:    22.2          K:   9.3       NH4: 13.6
SO4:  150.4       HCO3:   151.6       Cl:     8.5       NO3:    7.7          F:  1.3
Sum Cations:  315.5  Sum Anions:  319.7  Cations/Anions: 0.99   Tot. P:   5.2
Tot. Al:  154.4    Ext. Al:    7.3    Fe:  183.0      Mn:    85.0     SiO2:  2.81
```

(continued)

TABLE 4-1 (continued)

```
ID: 1C1-106   Name: SUCKER POND                        State: VT  Date: 07NOV84
Sample Type: SPC/LTM/          Latitude: 42-49'30"N   Longitude: 73-07'45"W
Elevation:  691   Surface Temp:  6.5  Stratified: MIXED      Site Depth:   2.7
Lake Area:      21 Watershed Area:      85 WA/LA:      4.0 Hydro Type: DRAINAGE
Residence Time:  0.45  Secchi Depth:  2.7   Turbidity:   0.9       Color:    30
Closed pH: 6.90        Equil. pH: 7.12              ANC:    96.9        DOC:  2.97
Closed DIC:  1.13   Equil. DIC:  0.89    Meas. Cond:  23.5   Cal. Cond:  23.2
Ca:  109.1          Mg:    37.7        Na:    30.1          K:   12.8      NH4:   0.9
SO4:    95.5       HCO3:    77.2       Cl:    12.4        NO3:    0.1         F:   2.3
Sum Cations:  190.7  Sum Anions:  187.4  Cations/Anions: 1.02   Tot. P:    6.7
Tot. Al:    73.1    Ext. Al:    3.3    Fe:    16.0      Mn:     5.0    SiO2:  0.65

ID: 1C1-107   Name: BEAVER POND                        State: VT  Date: 18OCT84
Sample Type: SPC/LTM/NRC/      Latitude: 45-00'20"N   Longitude: 71-56'30"W
Elevation:  468   Surface Temp: 10.8  Stratified: STRONG     Site Depth:  24.4
Lake Area:      18 Watershed Area:     256 WA/LA:     14.1 Hydro Type: DRAINAGE
Residence Time:  1.16  Secchi Depth:  4.8   Turbidity:   0.2       Color:    15
Closed pH: 6.53        Equil. pH: 6.91              ANC:    66.0        DOC:  5.37
Closed DIC:  1.06   Equil. DIC:  0.75    Meas. Cond:  23.4   Cal. Cond:  23.9
Ca:  146.8          Mg:    29.3        Na:    24.0          K:    6.1      NH4:   1.3
SO4:  109.3        HCO3:    46.6       Cl:     8.8        NO3:    0.6         F:   4.0
Sum Cations:  207.8  Sum Anions:  169.4  Cations/Anions: 1.23   Tot. P:    7.0
Tot. Al:    35.0    Ext. Al:   18.8    Fe:    14.0      Mn:    23.0    SiO2:  1.77

ID: 1C1-108   Name: BIG MUDDY POND                     State: VT  Date: 29OCT84
Sample Type: SPC/LTM/          Latitude: 44-45'20"N   Longitude: 72-36'00"W
Elevation:  430   Surface Temp: 11.9  Stratified: MIXED      Site Depth:   2.4
Lake Area:       5 Watershed Area:      41 WA/LA:      7.6 Hydro Type: DRAINAGE
Residence Time:  0.23  Secchi Depth:  2.3   Turbidity:   1.5       Color:    45
Closed pH: 6.67        Equil. pH: 6.92              ANC:    70.9        DOC:  4.01
Closed DIC:  1.05   Equil. DIC:  0.84    Meas. Cond:  22.8   Cal. Cond:  23.7
Ca:  144.6          Mg:    31.3        Na:    12.4          K:    3.6      NH4:   0.8
SO4:  112.8        HCO3:    60.3       Cl:     7.7        NO3:    0.1         F:   1.2
Sum Cations:  192.9  Sum Anions:  182.2  Cations/Anions: 1.06   Tot. P:    9.0
Tot. Al:    32.0    Ext. Al:    3.8    Fe:     7.0      Mn:    29.0    SiO2:  0.35

ID: 1C1-109   Name: GRIFFITH LAKE                      State: VT  Date: 06NOV84
Sample Type: SPC/LTM/          Latitude: 43-18'08"N   Longitude: 72-57'35"W
Elevation:  789   Surface Temp:  6.3  Stratified: MIXED      Site Depth:   3.3
Lake Area:       6 Watershed Area:      60 WA/LA:     10.0 Hydro Type: DRAINAGE
Residence Time:  0.23  Secchi Depth:  2.1   Turbidity:   0.9       Color:    50
Closed pH: 5.91        Equil. pH: 6.28              ANC:    37.1        DOC:  8.70
Closed DIC:  0.68   Equil. DIC:  0.31    Meas. Cond:  18.2   Cal. Cond:  16.7
Ca:   80.9          Mg:    29.5        Na:    16.7          K:    8.7      NH4:   1.1
SO4:   86.8        HCO3:    17.9       Cl:     7.7        NO3:    0.0         F:   1.2
Sum Cations:  138.1  Sum Anions:  113.7  Cations/Anions: 1.21   Tot. P:    4.4
Tot. Al:  265.5    Ext. Al:   58.6    Fe:    60.0      Mn:    50.0    SiO2:  2.76

ID: 1C1-110   Name: HAYSTACK POND                      State: VT  Date: 06NOV84
Sample Type: SPC/LTM/NRC/      Latitude: 42-55'00"N   Longitude: 72-55'00"W
Elevation:  910   Surface Temp:  6.7  Stratified: MIXED      Site Depth:   7.0
Lake Area:      11 Watershed Area:      52 WA/LA:      4.8 Hydro Type: DRAINAGE
Residence Time:  0.86  Secchi Depth:  7.0   Turbidity:   0.4       Color:    10
Closed pH: 5.23        Equil. pH: 5.30              ANC:     2.2        DOC:  0.43
Closed DIC:  0.33   Equil. DIC:  0.16    Meas. Cond:  14.1   Cal. Cond:  13.5
Ca:   33.3          Mg:    17.3        Na:    14.5          K:    4.1      NH4:   2.9
SO4:   75.1        HCO3:     2.0       Cl:    12.5        NO3:    4.6         F:   0.7
Sum Cations:   77.6  Sum Anions:   94.9  Cations/Anions: 0.82   Tot. P:    2.9
Tot. Al:  143.2    Ext. Al:   47.0    Fe:    74.0      Mn:    50.0    SiO2:  0.83
```

(continued)

TABLE 4-1 (continued)

```
ID: 1C1-111   Name: HOLLAND POND                        State: VT  Date: 18OCT84
Sample Type: SPC/LTM/              Latitude: 44-59'10"N   Longitude: 71-55'45"W
Elevation:  436   Surface Temp: 11.1  Stratified: MIXED      Site Depth:  10.4
Lake Area:      131 Watershed Area:    2408 WA/LA:      18.3 Hydro Type: DRAINAGE
Residence Time:  0.39  Secchi Depth:  4.6   Turbidity:   0.4      Color:   25
Closed pH: 7.06         Equil. pH: 7.22                ANC:   118.4        DOC:  5.44
Closed DIC:   1.44   Equil. DIC:   1.28    Meas. Cond:   30.6   Cal. Cond:  29.2
Ca:   189.6          Mg:    37.7        Na:     29.6          K:    6.4      NH4:  0.6
SO4:   111.6        HCO3:   94.5        Cl:     6.8        NO3:   0.1         F:  3.5
Sum Cations:  263.9  Sum Anions:  216.5  Cations/Anions: 1.22   Tot. P:   7.2
Tot. Al:   48.1    Ext. Al:   9.2    Fe:    34.0      Mn:    10.0    SiO2:  2.29

ID: 1C1-112   Name: HOWE POND                           State: VT  Date: 07NOV84
Sample Type: SPC/LTM/              Latitude: 42-47'08"N   Longitude: 72-59'15"W
Elevation:  587   Surface Temp:  6.8  Stratified: MIXED      Site Depth:   3.1
Lake Area:       21 Watershed Area:     767 WA/LA:      36.7 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.4   Turbidity:   1.1      Color:   50
Closed pH: 6.54         Equil. pH: 6.99                ANC:    62.5        DOC:  4.67
Closed DIC:   1.03   Equil. DIC:   0.62    Meas. Cond:   19.5   Cal. Cond:  19.4
Ca:    89.1          Mg:    33.7        Na:     33.2          K:    8.4      NH4:  1.3
SO4:    74.1        HCO3:   55.5        Cl:    16.8        NO3:   0.3         F:  2.2
Sum Cations:  165.[illegible]  Sum Anions:  148.9  Cations/Anions: 1.11   Tot. P:  10.8
Tot. Al:  215.4    Ext. Al:  13.2    Fe:   241.0      Mn:    10.0    SiO2:  2.05

ID: 1C1-113   Name: SOMERSET RESERVOIR                  State: VT  Date: 23OCT84
Sample Type: SPC/LTM/              Latitude: 43-00'00"N   Longitude: 72-56'20"W
Elevation:  650   Surface Temp: 12.5  Stratified: MIXED      Site Depth:  19.5
Lake Area:      598 Watershed Area:    6914 WA/LA:      11.6 Hydro Type: RESERVOIR
Residence Time:  1.01  Secchi Depth:  2.8   Turbidity:   0.9      Color:   25
Closed pH: 5.93         Equil. pH: 6.21                ANC:    22.0        DOC:  3.31
Closed DIC:   0.63   Equil. DIC:   0.27    Meas. Cond:   17.9   Cal. Cond:  16.8
Ca:    64.4          Mg:    26.5        Na:     23.5          K:   13.0      NH4:  1.8
SO4:    85.2        HCO3:   16.5        Cl:      9.7        NO3:   7.4         F:  1.3
Sum Cations:  130.4  Sum Anions:  120.1  Cations/Anions: 1.09   Tot. P:   6.8
Tot. Al:  157.9    Ext. Al:  29.8    Fe:    53.0      Mn:    55.0    SiO2:  2.36

ID: 1C1-114   Name: STERLING POND                       State: VT  Date: 29OCT84
Sample Type: SPC/LTM/              Latitude: 44-33'22"N   Longitude: 72-46'28"W
Elevation:  917   Surface Temp:  8.9  Stratified: MIXED      Site Depth:   1.5
Lake Area:        3 Watershed Area:      10 WA/LA:       3.7 Hydro Type: DRAINAGE
Residence Time:  0.21  Secchi Depth:  1.5   Turbidity:   0.8      Color:   50
Closed pH: 6.57         Equil. pH: 6.91                ANC:    70.7        DOC:  4.91
Closed DIC:   1.10   Equil. DIC:   0.70    Meas. Cond:   19.9   Cal. Cond:  20.4
Ca:   102.1          Mg:    72.3        Na:      9.7          K:    3.4      NH4:  1.7
SO4:    79.3        HCO3:   51.6        Cl:      7.5        NO3:   4.3         F:  0.9
Sum Cations:  189.6  Sum Anions:  143.6  Cations/Anions: 1.32   Tot. P:   9.0
Tot. Al:  209.0    Ext. Al:  21.7    Fe:   105.0      Mn:    25.0    SiO2:  0.84

ID: 1C1-115   Name: MOSES POND                          State: VT  Date: 06NOV84
Sample Type: SPC/LTM/              Latitude: 43-20'03"N   Longitude: 72-50'35"W
Elevation:  680   Surface Temp:  6.2  Stratified: MIXED      Site Depth:   1.4
Lake Area:        3 Watershed Area:      47 WA/LA:      18.1 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  1.4   Turbidity:   0.4      Color:   20
Closed pH: 4.92         Equil. pH: 4.93                ANC:    17.1        DOC:  5.08
Closed DIC:   0.50   Equil. DIC:   0.16    Meas. Cond:   19.9   Cal. Cond:  20.0
Ca:    49.9          Mg:    31.5        Na:     19.3          K:    5.2      NH4:  1.4
SO4:   106.3        HCO3:    2.8        Cl:     11.3        NO3:   0.2         F:  1.8
Sum Cations:  119.6  Sum Anions:  122.4  Cations/Anions: 0.98   Tot. P:   8.4
Tot. Al:  157.4    Ext. Al:  64.6    Fe:   101.0      Mn:    83.0    SiO2:  1.15
```

(continued)

TABLE 4-1 (continued)

```
ID: 1C1-116   Name: GRANITE LAKE                         State: NH  Date: 24OCT84
Sample Type: SPC/NRC/            Latitude: 43-01'15"N    Longitude: 72-08'30"W
Elevation:  390   Surface Temp: 13.1  Stratified: STRONG    Site Depth:  26.2
Lake Area:     97 Watershed Area:   1085 WA/LA:     11.1 Hydro Type: DRAINAGE
Residence Time:  1.63  Secchi Depth:  7.3  Turbidity:   0.2      Color:     5
Closed pH: 6.48         Equil. pH: 6.68             ANC:   37.8          DOC:  1.56
Closed DIC:  0.46   Equil. DIC:  0.38   Meas. Cond:  37.5   Cal. Cond:  39.7
Ca:   70.2            Mg:    49.4         Na:  170.5          K:  15.0        NH4:  0.7
SO4:  117.4        HCO3:    29.4        Cl:  160.6         NO3:   0.2           F:  2.6
Sum Cations:  306.0  Sum Anions:  310.3  Cations/Anions: 0.99   Tot. P:   2.5
Tot. Al:     8.5    Ext. Al:    5.1    Fe:     7.0     Mn:     5.0    SiO2:  2.62
```

```
ID: 1C1-117   Name: PEA PORRIDGE POND                    State: NH  Date: 25OCT84
Sample Type: SPC/NRC/            Latitude: 43-56'28"N    Longitude: 71-07'15"W
Elevation:  198   Surface Temp: 12.8  Stratified: MIXED     Site Depth:  11.0
Lake Area:     64 Watershed Area:    541 WA/LA:      8.5 Hydro Type: DRAINAGE
Residence Time:  0.88  Secchi Depth:  5.0  Turbidity:   0.5      Color:    15
Closed pH: 6.43         Equil. pH: 6.89             ANC:   53.5          DOC:  2.67
Closed DIC:  0.76   Equil. DIC:  0.61   Meas. Cond:  18.2   Cal. Cond:  19.2
Ca:   72.0            Mg:    19.5         Na:   58.2          K:   7.8        NH4:  1.1
SO4:   69.3        HCO3:    44.7        Cl:   27.1         NO3:   0.2           F: 11.1
Sum Cations:  158.8  Sum Anions:  152.3  Cations/Anions: 1.04   Tot. P:   0.2
Tot. Al:    89.7    Ext. Al:    6.3    Fe:    23.0     Mn:    10.0    SiO2:  3.62
```

```
ID: 1C1-118   Name: PROVINCE LAKE                        State: NH  Date: 29OCT84
Sample Type: SPC/NRC/            Latitude: 43-41'30"N    Longitude: 71-00'00"W
Elevation:  146   Surface Temp: 12.9  Stratified: MIXED     Site Depth:   4.0
Lake Area:    386 Watershed Area:   1839 WA/LA:      4.8 Hydro Type: DRAINAGE
Residence Time:  0.55  Secchi Depth:  3.0  Turbidity:   1.2      Color:    15
Closed pH: 6.86         Equil. pH: 7.15             ANC:   94.8          DOC:  3.40
Closed DIC:  1.17   Equil. DIC:  1.03   Meas. Cond:  32.5   Cal. Cond:  32.6
Ca:   92.5            Mg:    37.3         Na:  131.2          K:   9.3        NH4:  1.1
SO4:   75.5        HCO3:    78.6        Cl:  103.2         NO3:   0.2           F:  5.3
Sum Cations:  271.5  Sum Anions:  262.8  Cations/Anions: 1.03   Tot. P:   9.5
Tot. Al:    74.6    Ext. Al:    2.4    Fe:     0.0     Mn:     0.0    SiO2:  2.92
```

```
ID: 1C1-119   Name: SAND POND                            State: NH  Date: 24OCT84
Sample Type: SPC/NRC/            Latitude: 43-10'45"N    Longitude: 72-10'00"W
Elevation:  470   Surface Temp: 12.9  Stratified: MIXED     Site Depth:   7.0
Lake Area:     65 Watershed Area:    326 WA/LA:      5.0 Hydro Type: DRAINAGE
Residence Time:  1.05  Secchi Depth:  7.0  Turbidity:   0.1      Color:     5
Closed pH: 5.55         Equil. pH: 5.66             ANC:    7.8          DOC:  1.50
Closed DIC:  0.26   Equil. DIC:  0.14   Meas. Cond:  22.3   Cal. Cond:  22.4
Ca:   76.5            Mg:    27.5         Na:   46.4          K:   7.7        NH4:  0.8
SO4:  128.6        HCO3:     7.9        Cl:   28.9         NO3:   0.0           F:  2.2
Sum Cations:  160.1  Sum Anions:  167.6  Cations/Anions: 0.96   Tot. P:   3.0
Tot. Al:    38.4    Ext. Al:   21.2    Fe:     6.0     Mn:    29.0    SiO2:  1.09
```

```
ID: 1C1-120   Name: SILVER LAKE                          State: NH  Date: 25OCT84
Sample Type: SPC/NRC/            Latitude: 43-52'00"N    Longitude: 71-10'30"W
Elevation:  142   Surface Temp: 12.8  Stratified: WEAK      Site Depth:  19.5
Lake Area:    389 Watershed Area:   5662 WA/LA:     14.6 Hydro Type: DRAINAGE
Residence Time:  0.94  Secchi Depth:  5.9. Turbidity:   0.3      Color:    15
Closed pH: 6.77         Equil. pH: 7.05             ANC:  114.8          DOC:  2.78
Closed DIC:  1.01   Equil. DIC:  0.86   Meas. Cond:  25.7   Cal. Cond:  22.8
Ca:   91.8            Mg:    24.3         Na:   94.7          K:   9.7        NH4:  0.7
SO4:   66.7        HCO3:    62.1        Cl:   22.4         NO3:   0.0           F: 11.6
Sum Cations:  221.3  Sum Anions:  162.9  Cations/Anions: 1.36   Tot. P:   4.6
Tot. Al:    47.5    Ext. Al:    8.9    Fe:    27.0     Mn:     4.0    SiO2:  4.90
```

(continued)

TABLE 4-1 (continued)

```
ID: 1C2-071   Name: PIGEON POND                          State: VT  Date: 29OCT84
Sample Type: SPC/LTM/           Latitude: 44-14'45"N   Longitude: 72-19'45"W
Elevation:  596   Surface Temp: 11.4  Stratified: MIXED      Site Depth:   6.1
Lake Area:      29 Watershed Area:     316 WA/LA:      10.9 Hydro Type: DRAINAGE
Residence Time:  0.55  Secchi Depth:  2.7   Turbidity:   0.5      Color:   23
Closed pH: 6.86        Equil. pH: 7.13              ANC:   97.5         DOC:  4.79
Closed DIC:  1.19   Equil. DIC:  1.00    Meas. Cond:  26.8   Cal. Cond:  26.8
Ca:  146.6           Mg:    35.9      Na:    36.7         K:   7.4       NH4:   1.0
SO4:  116.5       HCO3:    79.5      Cl:     9.2       NO3:   0.2          F:   2.1
Sum Cations:  227.8  Sum Anions:  207.5  Cations/Anions: 1.10   Tot. P:   4.5
Tot. Al:   88.0    Ext. Al:  11.7     Fe:    20.5       Mn:     7.0    SiO2:  4.22
```

```
ID: 1C2-072   Name: LAKE NINEVAH                         State: VT  Date: 23OCT84
Sample Type: SPC/LTM/           Latitude: 43-28'15"N   Longitude: 72-45'30"W
Elevation:  535   Surface Temp: 12.6  Stratified: MIXED      Site Depth:   3.0
Lake Area:      69 Watershed Area:     313 WA/LA:       4.5 Hydro Type: DRAINAGE
Residence Time:  0.44  Secchi Depth:  2.8   Turbidity:   0.6      Color:   20
Closed pH: 6.78        Equil. pH. 6.96              ANC:   64.2         DOC:  5.04
Closed DIC:  0.99   Equil. DIC:  0.66    Meas. Cond:  20.8   Cal. Cond:  22.4
Ca:  101.6           Mg:    41.4      Na:    27.6         K:  14.9       NH4:   0.6
SO4:   95.5       HCO3:    62.2      Cl:    14.3       NO3:   0.1          F:   1.4
Sum Cations:  186.4  Sum Anions:  173.4  Cations/Anions: 1.07   Tot. P:   8.9
Tot. Al:   50.8    Ext. Al:   7.7     Fe:    15.0       Mn:     3.0    SiO2:  0.15
```

```
ID: 1C2-073   Name: OSMORE POND                          State: VT  Date: 25OCT84
Sample Type: SPC/LTM/           Latitude: 44-18'30"N   Longitude: 72-16'45"W
Elevation:  448   Surface Temp: 11.1  Stratified: MIXED      Site Depth:   3.0
Lake Area:      19 Watershed Area:     298 WA/LA:      15.9 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  3.0   Turbidity:   0.7      Color:   15
Closed pH: 7.22        Equil. pH: 7.38              ANC:  192.3         DOC:  3.21
Closed DIC:  1.78   Equil. DIC:  1.71    Meas. Cond:  31.3   Cal. Cond:  33.4
Ca:  170.9           Mg:    39.8      Na:    68.2         K:  11.2       NH4:   0.9
SO4:  109.9       HCO3:   148.9      Cl:    16.8       NO3:   0.1          F:   1.8
Sum Cations:  291.0  Sum Anions:  278.1  Cations/Anions: 1.05   Tot. P:   9.4
Tot. Al:   53.8    Ext. Al:  11.8     Fe:     0.0       Mn:     0.0    SiO2:  8.98
```

```
ID: 1C2-074   Name: WHEELER POND                         State: VT  Date: 25OCT84
Sample Type: SPC/LTM/           Latitude: 44-42'30"N   Longitude: 71-38'30"W
Elevation:  313   Surface Temp: 10.6  Stratified: MIXED      Site Depth:   4.6
Lake Area:      28 Watershed Area:    1676 WA/LA:      59.2 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  2.5   Turbidity:   0.4      Color:   60
Closed pH: 6.67        Equil. pH: 7.23              ANC:  134.1         DOC:  8.29
Closed DIC:  1.82   Equil. DIC:  1.23    Meas. Cond:  29.4   Cal. Cond:  30.5
Ca:  169.5           Mg:    49.1      Na:    53.4         K:  16.1       NH4:   1.2
SO4:  101.4       HCO3:   103.7      Cl:     9.4       NO3:   0.4          F:   6.8
Sum Cations:  289.4  Sum Anions:  221.8  Cations/Anions: 1.30   Tot. P:   5.1
Tot. Al:  217.0    Ext. Al:  31.2     Fe:    81.0       Mn:    14.5    SiO2:  5.42
```

```
ID: 1C2-075   Name: COW MTN. POND                        State: VT  Date: 25OCT84
Sample Type: SPC/LTM/           Latitude: 44-33'40"N   Longitude: 71-42'10"W
Elevation:  629   Surface Temp:  9.8  Stratified: MIXED      Site Depth:   6.7
Lake Area:       3 Watershed Area:      52 WA/LA:      16.8 Hydro Type: DRAINAGE
Residence Time:  0.33  Secchi Depth:  3.4   Turbidity:   0.5      Color:   30
Closed pH: 6.77        Equil. pH: 7.30              ANC:  136.3         DOC:  4.98
Closed DIC:  1.92   Equil. DIC:  1.42    Meas. Cond:  28.2   Cal. Cond:  29.0
Ca:  150.0           Mg:    66.1      Na:    36.8         K:  10.6       NH4:   0.9
SO4:   98.9       HCO3:   116.2      Cl:     7.8       NO3:   0.3          F:   1.7
Sum Cations:  264.5  Sum Anions:  224.9  Cations/Anions: 1.18   Tot. P:   4.8
Tot. Al:  186.6    Ext. Al:  17.9     Fe:    11.0       Mn:    15.0    SiO2:  3.50
```

(continued)

TABLE 4-1 (continued)

```
ID: 1C2-076   Name: CANAAN STREET LAKE                State: NH  Date: 23OCT84
Sample Type: SPC/NRC/            Latitude: 43-40'00"N   Longitude: 72-02'00"W
Elevation:  348   Surface Temp: 12.8  Stratified: MIXED     Site Depth:   6.7
Lake Area:     119 Watershed Area:     627 WA/LA:     5.3 Hydro Type: DRAINAGE
Residence Time:  0.95  Secchi Depth:  4.4   Turbidity:   0.2     Color:   13
Closed pH: 7.22         Equil. pH: 7.41              ANC:  169.1       DOC:  3.91
Closed DIC:  1.96   Equil. DIC:  1.74   Meas. Cond:  41.6   Cal. Cond:  45.2
Ca:  201.0          Mg:   56.5      Na:  113.7        K:  10.6       NH4:  0.5
SO4:  117.4       HCO3:  165.3      Cl:   89.7      NO3:   0.0         F:  1.5
Sum Cations:  382.4  Sum Anions:  374.3  Cations/Anions: 1.02   Tot. P:   4.9
Tot. Al:  112.2    Ext. Al:    7.4    Fe:     3.0     Mn:     3.0    SiO2:  0.36

ID: 1C2-077   Name: CONTOOCOOK LAKE                   State: NH  Date: 01NOV84
Sample Type: SPC/NRC/            Latitude: 42-47'30"N   Longitude: 72-00'30"W
Elevation:  308   Surface Temp: 11.8  Stratified: MIXED     Site Depth:   6.1
Lake Area:     163 Watershed Area:    3642 WA/LA:    22.4 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  2.9   Turbidity:   1.0     Color:   25
Closed pH: 6.49         Equil. pH: 6.96              ANC:   72.8       DOC:  3.69
Closed DIC:  1.18   Equil. DIC:  0.74   Meas. Cond:  47.1   Cal. Cond:  48.2
Ca:   87.6          Mg:   41.7      Na:  235.8        K:  20.5       NH4:  1.7
SO4:   94.8       HCO3:   68.7      Cl:  215.5      NO3:   0.2         F:  2.6
Sum Cations:  387.6  Sum Anions:  381.9  Cations/Anions: 1.02   Tot. P:  20.6
Tot. Al:   63.4    Ext. Al:    3.4    Fe:   155.0     Mn:    15.0    SiO2:  1.84

ID: 1C2-078   Name: CRYSTAL LAKE                      State: NH  Date: 30OCT84
Sample Type: SPC/NRC/            Latitude: 43-26'30"N   Longitude: 71-18'45"W
Elevation:  191   Surface Temp: 12.0  Stratified: MIXED     Site Depth:  15.2
Lake Area:     179 Watershed Area:    7130 WA/LA:    39.9 Hydro Type: DRAINAGE
Residence Time:  0.34  Secchi Depth:  4.3   Turbidity:   0.6     Color:   20
Closed pH: 6.49         Equil. pH: 6.94              ANC:   73.4       DOC:  2.94
Closed DIC:  1.26   Equil. DIC:  0.83   Meas. Cond:  23.4   Cal. Cond:  24.1
Ca:   96.6          Mg:   30.2      Na:   65.8        K:   7.6       NH4:  1.3
SO4:   92.0       HCO3:   57.2      Cl:   33.1      NO3:   0.4         F:  5.0
Sum Cations:  201.8  Sum Anions:  187.8  Cations/Anions: 1.07   Tot. P:   5.0
Tot. Al:   28.0    Ext. Al:    1.7    Fe:   132.0     Mn:    60.0    SiO2:  3.74

ID: 1C2-079   Name: HALFMOON LAKE                     State: NH  Date: 30OCT84
Sample Type: SPC/NRC/            Latitude: 43-23'30"N   Longitude: 71-13'45"W
Elevation:  195   Surface Temp: 12.5  Stratified: MIXED     Site Depth:   9.1
Lake Area:     114 Watershed Area:    1730 WA/LA:    15.1 Hydro Type: DRAINAGE
Residence Time:  0.52  Secchi Depth:  5.3   Turbidity:   0.5     Color:   15
Closed pH: 6.62         Equil. pH: 7.01              ANC:   70.2       DOC:  3.41
Closed DIC:  1.08   Equil. DIC:  0.80   Meas. Cond:  28.6   Cal. Cond:  29.9
Ca:   83.5          Mg:   36.6      Na:  119.3        K:   9.4       NH4:  1.1
SO4:   88.8       HCO3:   55.7      Cl:   84.5      NO3:   0.5         F:  2.4
Sum Cations:  250.1  Sum Anions:  231.9  Cations/Anions: 1.08   Tot. P:   5.2
Tot. Al:   22.2    Ext. Al:    2.8    Fe:    32.0     Mn:    25.0    SiO2:  3.04

ID: 1C2-080   Name: HUBBARD POND                      State: NH  Date: 03NOV84
Sample Type: SPC/NRC/            Latitude: 42-46'45"N   Longitude: 71-58'00"W
Elevation:  338   Surface Temp: 10.3  Stratified: MIXED     Site Depth:   4.9
Lake Area:      78 Watershed Area:     906 WA/LA:    11.6 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  2.2   Turbidity:   0.7     Color:   35
Closed pH: 5.81         Equil. pH: 6.23              ANC:   28.0       DOC:  4.92
Closed DIC:  0.60   Equil. DIC:  0.24   Meas. Cond:  21.8   Cal. Cond:  21.8
Ca:   53.0          Mg:   24.8      Na:   85.8        K:   7.0       NH4:  3.4
SO4:   83.7       HCO3:   13.9      Cl:   55.5      NO3:   1.2         F:  2.2
Sum Cations:  175.4  Sum Anions:  156.5  Cations/Anions: 1.12   Tot. P:  10.1
Tot. Al:   93.6    Ext. Al:   10.7    Fe:   100.0     Mn:    10.0    SiO2:  0.86
```

(continued)

TABLE 4-1 (continued)

```
ID: 1C2-081   Name: ONWAY LAKE                        State: NH  Date: 30OCT84
Sample Type: SPC/NRC/          Latitude: 43-02'30"N   Longitude: 71-13'15"W
Elevation:   81   Surface Temp: 13.4  Stratified: MIXED     Site Depth:   4.9
Lake Area:     73 Watershed Area:   2194 WA/LA:    30.2 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  3.4   Turbidity:   0.9      Color:   30
Closed pH: 6.87        Equil. pH: 7.24             ANC:  129.3       DOC:  5.62
Closed DIC:  1.68  Equil. DIC:  1.44   Meas. Cond:  65.4   Cal. Cond:  68.8
Ca:  163.1          Mg:    57.5       Na:  348.0          K:  14.5      NH4:   1.3
SO4:    92.3      HCO3:  104.8       Cl:  329.5         NO3:   0.1        F:   3.1
Sum Cations:  584.6  Sum Anions:  530.0  Cations/Anions: 1.10   Tot. P:   9.4
Tot. Al:   32.8    Ext. Al:    2.1    Fe:  134.0       Mn:    20.0    SiO2:  2.28

ID: 1C2-082   Name: WHITEOAK POND                     State: NH  Date: 24OCT84
Sample Type: SPC/NRC/          Latitude: 43-43'05"N   Longitude: 71-33'30"W
Elevation:  178   Surface Temp: 12.8  Stratified: MIXED     Site Depth:   9.7
Lake Area:    122 Watershed Area:   1272 WA/LA:    10.4 Hydro Type: DRAINAGE
Residence Time:  0.63  Secchi Depth:  3.2   Turbidity:   0.5      Color:   15
Closed pH: 6.79        Equil. pH· 7.21             ANC:  102.2       DOC:  4.48
Closed DIC:  1.34  Equil. DIC:  0.94   Meas. Cond:  31.8   Cal. Cond:  32.4
Ca:  118.5          Mg:    37.6       Na:  103.1          K:  14.7      NH4:   1.0
SO4:    75.3      HCO3:    91.8       Cl:   87.8        NO3:   0.5        F:   1.8
Sum Cations:  275.0  Sum Anions:  257.3  Cations/Anions: 1.07   Tot. P:  11.5
Tot. Al:   24.1    Ext. Al:    6.2    Fe:   37.0       Mn:     0.0    SiO2:  1.81

ID: 1C3-075   Name: SOUTH POND                        State: VT  Date: 06NOV84
Sample Type: SPC/LTM/          Latitude: 42-50'38"N   Longitude: 72-42'45"W
Elevation:  506   Surface Temp:  9.3  Stratified: MIXED     Site Depth:  10.1
Lake Area:     25 Watershed Area:    145 WA/LA:     5.8 Hydro Type: DRAINAGE
Residence Time:  1.18  Secchi Depth:  3.2   Turbidity:   0.6      Color:   10
Closed pH: 6.51        Equil. pH: 6.74             ANC:   39.2       DOC:  2.16
Closed DIC:  0.66  Equil. DIC:  0.52   Meas. Cond:  20.6   Cal. Cond:  20.2
Ca:   79.7          Mg:    32.9       Na:   29.7          K:   7.4      NH4:   1.1
SO4:  105.6       HCO3:   36.0       Cl:   17.3         NO3:   0.0        F:   1.5
Sum Cations:  151.2  Sum Anions:  160.4  Cations/Anions: 0.94   Tot. P:   4.9
Tot. Al:   23.0    Ext. Al:    2.3    Fe:   23.0       Mn:    38.0    SiO2:  1.07

ID: 1C3-076   Name: FORESTER POND                     State: VT  Date: 23OCT84
Sample Type: SPC/LTM/          Latitude: 43-04'54"N   Longitude: 72-52'05"W
Elevation:  533   Surface Temp: 13.8  Stratified: MIXED     Site Depth:   1.5
Lake Area:      3 Watershed Area:     34 WA/LA:    10.6 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.5   Turbidity:   0.3      Color:   10
Closed pH: 4.76        Equil. pH: 4.74             ANC:  -11.6       DOC:  3.07
Closed DIC:  0.28  Equil. DIC:  0.13   Meas. Cond:  23.1   Cal. Cond:  22.4
Ca:   52.2          Mg:    16.9       Na:   36.1          K:   2.1      NH4:   0.9
SO4:    97.0      HCO3:     0.9       Cl:   35.6        NO3:   0.4        F:   2.7
Sum Cations:  124.4  Sum Anions:  136.7  Cations/Anions: 0.91   Tot. P:  11.0
Tot. Al:  524.2    Ext. Al:  148.4    Fe:   35.0       Mn:    43.0    SiO2:  0.34

ID: 1C3-077   Name: AYERS POND                        State: NH  Date: 30OCT84
Sample Type: SPC/NRC/          Latitude: 43-15'00"N   Longitude: 71-03'00"W
Elevation:   71   Surface Temp: 13.3  Stratified: MIXED     Site Depth:   7.6
Lake Area:     89 Watershed Area:    785 WA/LA:     8.9 Hydro Type: RESERVOIR
Residence Time:  0.89  Secchi Depth:  5.0   Turbidity:   0.4      Color:   10
Closed pH: 6.53        Equil. pH: 6.80             ANC:   50.3       DOC:  2.70
Closed DIC:  0.83  Equil. DIC:  0.59   Meas. Cond:  34.3   Cal. Cond:  35.7
Ca:   68.0          Mg:    34.6       Na:  171.8          K:  11.6      NH4:   1.1
SO4:    82.9      HCO3:   39.6       Cl:  151.5         NO3:   0.1        F:   3.5
Sum Cations:  287.5  Sum Anions:  277.6  Cations/Anions: 1.04   Tot. P:   7.1
Tot. Al:   14.0    Ext. Al:    0.8    Fe:   20.0       Mn:     0.0    SiO2:  0.68
```

(continued)

TABLE 4-1 (continued)

```
ID: 1C3-078   Name: FOREST LAKE                      State: NH  Date: 01NOV84
Sample Type: SPC/NRC/            Latitude: 42-47'45"N   Longitude: 72-22'00"W
Elevation:  135   Surface Temp: 12.0  Stratified: MIXED      Site Depth:   6.7
Lake Area:      33 Watershed Area:    1808 WA/LA:     55.5 Hydro Type: DRAINAGE
Residence Time:  0.11  Secchi Depth:  3.3   Turbidity:   0.9      Color:   25
Closed pH: 6.80        Equil. pH: 7.57               ANC:  255.6       DOC:  3.13
Closed DIC:  3.74   Equil. DIC:  2.76    Meas. Cond: 164.6   Cal. Cond: 172.9
Ca:  229.7          Mg:  116.8       Na: 1038.8        K:  35.1       NH4: 10.0
SO4:   82.0       HCO3:  215.5       Cl: 1063.9      NO3:   3.5         F:  2.0
Sum Cations: 1430.5  Sum Anions: 1366.9  Cations/Anions: 1.05   Tot. P:  11.4
Tot. Al:    26.4    Ext. Al:    2.4     Fe:  163.0      Mn:  116.0    SiO2:  6.10

ID: 1C3-079   Name: LOVELL LAKE                      State: NH  Date: 29OCT84
Sample Type: SPC/NRC/            Latitude: 43-32'20"N   Longitude: 71-00'00"W
Elevation:  174   Surface Temp: 13.3  Stratified: MIXED      Site Depth:   8.0
Lake Area:     208 Watershed Area:    1248 WA/LA:      6.0 Hydro Type: DRAINAGE
Residence Time:  1.06  Secchi Depth:  4.3   Turbidity:   0.4      Color:   10
Closed pH: 7.27        Equil. pH: 7.51               ANC:  221.8       DOC:  2.60
Closed DIC:  2.59   Equil. DIC:  2.50    Meas. Cond:  62.3   Cal. Cond:  64.2
Ca:  223.4          Mg:   53.2       Na:  258.3        K:  12.9       NH4:  0.9
SO4:   80.6       HCO3:  192.4       Cl:  248.2      NO3:   0.1         F:  1.8
Sum Cations:  548.8  Sum Anions:  523.5  Cations/Anions: 1.05   Tot. P:   4.6
Tot. Al:    17.1    Ext. Al:    1.7     Fe:   11.0      Mn:    0.0    SiO2:  2.03

ID: 1C3-080   Name: SWAIN'S LAKE                     State: NH  Date: 30OCT84
Sample Type: SPC/NRC/            Latitude: 43-11'30"N   Longitude: 71-03'00"W
Elevation:   86   Surface Temp: 13.3  Stratified: MIXED      Site Depth:   3.6
Lake Area:     171 Watershed Area:     793 WA/LA:      4.6 Hydro Type: RESERVOIR
Residence Time:  0.71  Secchi Depth:  3.6   Turbidity:   0.3      Color:   20
Closed pH: 6.28        Equil. pH: 6.72               ANC:   41.4       DOC:  3.89
Closed DIC:  0.95   Equil. DIC:  0.42    Meas. Cond:  26.0   Cal. Cond:  27.6
Ca:   55.5          Mg:   32.1       Na:  124.9        K:   9.7       NH4:  1.9
SO4:   70.6       HCO3:   33.1       Cl:  106.0      NO3:   0.7         F:  2.0
Sum Cations:  224.5  Sum Anions:  212.5  Cations/Anions: 1.06   Tot. P:   7.7
Tot. Al:    35.5    Ext. Al:    3.9     Fe:   73.0      Mn:    3.0    SiO2:  1.09

ID: 1C3-081   Name: COLE POND                        State: VT  Date: 06NOV84
Sample Type: SPC/LTM/            Latitude: 43-08'55"N   Longitude: 72-48'20"W
Elevation:  364   Surface Temp:  8.1  Stratified: MIXED      Site Depth:   1.8
Lake Area:      15 Watershed Area:     153 WA/LA:     10.1 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.8   Turbidity:   0.2      Color:   15
Closed pH: 6.57        Equil. pH: 6.90               ANC:   54.2       DOC:  4.10
Closed DIC:  0.79   Equil. DIC:  0.56    Meas. Cond:  25.9   Cal. Cond:  26.3
Ca:   81.7          Mg:   43.7       Na:   62.2        K:  17.5       NH4:  1.2
SO4:  106.2       HCO3:   43.1       Cl:   53.1      NO3:   0.4         F:  1.5
Sum Cations:  206.6  Sum Anions:  204.4  Cations/Anions: 1.01   Tot. P:   6.1
Tot. Al:    47.4    Ext. Al:    6.7     Fe:   13.0      Mn:    5.0    SiO2:  0.22

ID: 1E1-131   Name: ANDERSON POND                    State: ME  Date: 22OCT84
Sample Type: SPC/LTM/            Latitude: 44-38'52"N   Longitude: 68-03'35"W
Elevation:   70   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   5.5
Lake Area:       5 Watershed Area:      49 WA/LA:     10.2 Hydro Type: DRAINAGE
Residence Time:  0.36  Secchi Depth:  5.5   Turbidity:   0.4      Color:    5
Closed pH: 6.13        Equil. pH: 6.38               ANC:   15.1       DOC:  1.98
Closed DIC:  0.39   Equil. DIC:  0.23    Meas. Cond:  16.8   Cal. Cond:  18.2
Ca:   35.2          Mg:   22.8       Na:   76.3        K:   5.8       NH4:  0.1
SO4:   57.3       HCO3:   17.3       Cl:   64.0      NO3:   0.9         F:  1.3
Sum Cations:  140.9  Sum Anions:  140.8  Cations/Anions: 1.00   Tot. P:   3.1
Tot. Al:    74.5    Ext. Al:    5.3     Fe:    0.0      Mn:    0.0    SiO2:  0.30
```

(continued)

TABLE 4-1 (continued)

```
ID: 1E1-132   Name: LITTLE LONG POND                    State: ME  Date: 22OCT84
Sample Type: SPC/LTM/NRC/        Latitude: 44-38'15"N   Longitude: 68-04'41"W
Elevation:   70   Surface Temp: 12.5  Stratified: STRONG    Site Depth:  24.7
Lake Area:     25 Watershed Area:    238 WA/LA:     9.6 Hydro Type: DRAINAGE
Residence Time:  1.69  Secchi Depth: 10.8  Turbidity:   0.3     Color:   10
Closed pH: 5.90       Equil. pH: 6.08              ANC:    8.9         DOC:  1.39
Closed DIC:  0.32   Equil. DIC:  0.18    Meas. Cond:  21.3   Cal. Cond:  22.3
Ca:   40.2          Mg:    27.1      Na:    91.1        K:   7.2      NH4:  0.1
SO4:    78.1      HCO3:     8.5      Cl:   81.6       NO3:   0.1        F:  1.9
Sum Cations:  166.9  Sum Anions:  170.2  Cations/Anions: 0.98   Tot. P:   1.1
Tot. Al:   58.8    Ext. Al:  26.9    Fe:     0.0      Mn:   17.0    SiO2:  2.85

ID: 1E1-133   Name: TILDEN POND                         State: ME  Date: 22OCT84
Sample Type: SPC/LTM/            Latitude: 44-38'05"N   Longitude: 68-04'20"W
Elevation:   70   Surface Temp: 12.3  Stratified: MIXED      Site Depth:   9.4
Lake Area:     15 Watershed Area:     80 WA/LA:     5.2 Hydro Type: DRAINAGE
Residence Time:  1.10  Secchi Depth:  5.7  Turbidity:   0.5     Color:   10
Closed pH: 6.64       Equil. pH: 6.91              ANC:   52.5         DOC:  2.60
Closed DIC:  0.64   Equil. DIC:  0.59    Meas. Cond:  22.2   Cal. Cond:  23.3
Ca:   59.2          Mg:    30.4      Na:    96.4        K:   7.4      NH4:  0.2
SO4:    57.2      HCO3:    50.9      Cl:   72.7       NO3:   0.0        F:  4.2
Sum Cations:  194.0  Sum Anions:  185.0  Cations/Anions: 1.05   Tot. P:   4.2
Tot. Al:  138.2    Ext. Al:   4.8    Fe:     1.0      Mn:    0.0    SiO2:  2.15

ID: 1E1-134   Name: MUD POND                            State: ME  Date: 22OCT84
Sample Type: SPC/LTM/NRC/        Latitude: 44-37'59"N   Longitude: 68-05'27"W
Elevation:  101   Surface Temp: 11.0  Stratified: STRONG    Site Depth:  14.3
Lake Area:      2 Watershed Area:     85 WA/LA:    53.1 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  7.5  Turbidity:   0.4     Color:    5
Closed pH: 4.82       Equil. pH: 4.76              ANC:  -11.8         DOC:  2.82
Closed DIC:  0.32   Equil. DIC:  0.13    Meas. Cond:  28.1   Cal. Cond:  27.6
Ca:   26.9          Mg:    23.5      Na:    90.6        K:   4.8      NH4:  0.4
SO4:    96.1      HCO3:     0.9      Cl:   81.4       NO3:   0.0        F:  1.5
Sum Cations:  162.8  Sum Anions:  180.0  Cations/Anions: 0.90   Tot. P:   4.5
Tot. Al:  361.1    Ext. Al: 259.3    Fe:    11.0      Mn:   19.0    SiO2:  2.57

ID: 1E1-135   Name: SALMON POND                         State: ME  Date: 22OCT84
Sample Type: SPC/LTM/            Latitude: 44-37'53"N   Longitude: 68-05'10"W
Elevation:   88   Surface Temp: 11.6  Stratified: MIXED      Site Depth:  10.4
Lake Area:      3 Watershed Area:     16 WA/LA:     6.1 Hydro Type: DRAINAGE
Residence Time:  1.06  Secchi Depth:  5.5  Turbidity:   0.5     Color:   20
Closed pH: 6.63       Equil. pH: 7.00              ANC:   60.3         DOC:  2.82
Closed DIC:  0.89   Equil. DIC:  0.67    Meas. Cond:  25.1   Cal. Cond:  23.4
Ca:   66.4          Mg:    31.4      Na:    90.0        K:   7.4      NH4:  0.3
SO4:    53.5      HCO3:    57.0      Cl:   72.6       NO3:   0.0        F:  4.1
Sum Cations:  195.9  Sum Anions:  187.3  Cations/Anions: 1.05   Tot. P:   6.1
Tot. Al:  152.2    Ext. Al:   4.8    Fe:     4.0      Mn:   17.0    SiO2:  1.37

ID: 1E1-136   Name: SPRING RIVER LAKE                   State: ME  Date: 22OCT84
Sample Type: SPC/LTM/            Latitude: 44-37'10"N   Longitude: 68-03'00"W
Elevation:   57   Surface Temp: 12.4  Stratified: MIXED      Site Depth:   9.1
Lake Area:    271 Watershed Area:   4797 WA/LA:    17.7 Hydro Type: DRAINAGE
Residence Time:  0.35  Secchi Depth:  9.1  Turbidity:   0.3     Color:   10
Closed pH: 6.40       Equil. pH: 6.55              ANC:   26.1         DOC:  1.69
Closed DIC:  0.45   Equil. DIC:  0.33    Meas. Cond:  30.8   Cal. Cond:  28.2
Ca:   51.2          Mg:    32.9      Na:   127.3        K:   7.6      NH4:  0.1
SO4:    73.9      HCO3:    28.5      Cl:  117.3       NO3:   0.0        F:  3.5
Sum Cations:  219.5  Sum Anions:  223.2  Cations/Anions: 0.98   Tot. P:   3.3
Tot. Al:  231.1    Ext. Al:   6.1    Fe:     0.0      Mn:   13.0    SiO2:  2.41
```

(continued)

TABLE 4-1 (continued)

```
ID: 2A1-061   Name: HUSTLER LAKE                    State: MN  Date: 30OCT84
Sample Type: SPC/NRC/            Latitude: 48-14'00"N    Longitude: 92-09'30"W
Elevation:  401   Surface Temp:  7.1  Stratified: MIXED      Site Depth:  18.9
Lake Area:     108 Watershed Area:     777 WA/LA:     7.2 Hydro Type: DRAINAGE
Residence Time:  5.80  Secchi Depth:  3.2   Turbidity:   0.9      Color:   32
Closed pH: 6.51        Equil. pH: 7.23               ANC:   85.0        DOC:  6.20
Closed DIC:  1.60   Equil. DIC:  1.03    Meas. Cond:  21.8   Cal. Cond:  21.9
Ca:   82.8          Mg:    66.6        Na:    39.6        K:  10.7       NH4:  0.6
SO4:   78.1       HCO3:    74.4        Cl:     9.9      NO3:   2.0          F:  2.2
Sum Cations:  200.6  Sum Anions:  166.6  Cations/Anions: 1.20   Tot. P:   6.0
Tot. Al:   32.0    Ext. Al:    6.0    Fe:    70.0     Mn:    20.0   SiO2:  2.13

ID: 2A2-063   Name: CRUISER LAKE                    State: MN  Date: 21OCT84
Sample Type: SPC/LTM/            Latitude: 48-29'54"N    Longitude: 92-48'19"W
Elevation:  380   Surface Temp: 10.2  Stratified: WEAK       Site Depth:  18.0
Lake Area:      48 Watershed Area:     119 WA/LA:     2.5 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.6   Turbidity:   0.3      Color:    6
Closed pH: 6.85        Equil. pH: 7.41               ANC:  118.2        DOC:  5.70
Closed DIC:  1.56   Equil. DIC:  1.16    Meas. Cond:  19.1   Cal. Cond:  21.2
Ca:  100.3          Mg:    56.8        Na:    30.4        K:  15.3       NH4:  0.0
SO4:   56.4       HCO3:   103.4        Cl:     5.1      NO3:   0.0          F:  1.3
Sum Cations:  202.9  Sum Anions:  166.3  Cations/Anions: 1.22   Tot. P:   2.0
Tot. Al:   11.0    Ext. Al:    1.0    Fe:     0.0     Mn:     0.0   SiO2:  0.52

ID: 2A2-064   Name: WEIR LAKE                       State: MN  Date: 21OCT84
Sample Type: SPC/LTM/            Latitude: 48-29'47"N    Longitude: 92-44'33"W
Elevation:  353   Surface Temp:  9.2  Stratified: MIXED      Site Depth:   4.0
Lake Area:      26 Watershed Area:     866 WA/LA:    33.3 Hydro Type: DRAINAGE
Residence Time:  0.38  Secchi Depth:  1.1   Turbidity:   1.6      Color:   82
Closed pH: 6.48        Equil. pH: 7.33               ANC:  147.0        DOC: 21.30
Closed DIC:  2.12   Equil. DIC:  1.18    Meas. Cond:  18.3   Cal. Cond:  21.0
Ca:  115.3          Mg:    82.3        Na:    37.4        K:  13.6       NH4:  7.3
SO4:   15.8       HCO3:    99.3        Cl:     5.6      NO3:   1.0          F:  1.7
Sum Cations:  256.0  Sum Anions:  123.5  Cations/Anions: 2.07   Tot. P:  13.0
Tot. Al:   43.0    Ext. Al:   11.0    Fe:   160.0     Mn:    10.0   SiO2:  0.78

ID: 2A2-065   Name: SHOEPACK LAKE                   State: MN  Date: 21OCT84
Sample Type: SPC/LTM/            Latitude: 48-30'13"N    Longitude: 92-53'00"W
Elevation:  364   Surface Temp:  9.4  Stratified: MIXED      Site Depth:   5.8
Lake Area:     123 Watershed Area:    1919 WA/LA:    15.6 Hydro Type: DRAINAGE
Residence Time:  1.04  Secchi Depth:  0.9   Turbidity:   1.6      Color:  112
Closed pH: 6.50        Equil. pH: 7.09               ANC:  121.3        DOC: 20.30
Closed DIC:  1.27   Equil. DIC:  0.69    Meas. Cond:  20.8   Cal. Cond:  19.6
Ca:   99.3          Mg:    72.4        Na:    39.6        K:  21.5       NH4:  8.9
SO4:   29.8       HCO3:    52.0        Cl:     5.9      NO3:   4.3          F:  1.7
Sum Cations:  241.9  Sum Anions:   93.8  Cations/Anions: 2.58   Tot. P:   6.0
Tot. Al:   87.0    Ext. Al:   26.0    Fe:   370.0     Mn:    10.0   SiO2:  1.70

ID: 2A2-066   Name: LOITEN LAKE                     State: MN  Date: 21OCT84
Sample Type: SPC/LTM/            Latitude: 48-31'33"N    Longitude: 92-55'24"W
Elevation:  362   Surface Temp:  9.9  Stratified: MIXED      Site Depth:  13.7
Lake Area:      39 Watershed Area:     290 WA/LA:     7.4 Hydro Type: DRAINAGE
Residence Time:  4.10  Secchi Depth:  3.8   Turbidity:   0.4      Color:   23
Closed pH: 6.69        Equil. pH: 7.37               ANC:  144.1        DOC: 10.90
Closed DIC:  1.82   Equil. DIC:  1.24    Meas. Cond:  26.1   Cal. Cond:  27.7
Ca:  124.3          Mg:    93.0        Na:    42.2        K:  18.7       NH4:  0.0
SO4:   79.5       HCO3:   107.5        Cl:     7.9      NO3:   0.5          F:  1.6
Sum Cations:  278.2  Sum Anions:  197.2  Cations/Anions: 1.41   Tot. P:   0.0
Tot. Al:   33.0    Ext. Al:    4.0    Fe:    70.0     Mn:    20.0   SiO2:  2.87
```

(continued)

TABLE 4-1 (continued)

```
ID: 2A2-067   Name: LOCATOR LAKE                       State: MN  Date: 21OCT84
Sample Type: SPC/LTM/            Latitude: 48-32'26"N   Longitude: 93-00'13"W
Elevation:  348   Surface Temp:  9.8  Stratified: MIXED     Site Depth:  14.3
Lake Area:       54 Watershed Area:    1324 WA/LA:     24.3 Hydro Type: DRAINAGE
Residence Time:  1.80  Secchi Depth:  2.0   Turbidity:   0.9      Color:    52
Closed pH: 6.56        Equil. pH: 7.32              ANC:  140.6          DOC: 13.90
Closed DIC:  1.98   Equil. DIC:  1.11     Meas. Cond:  25.6   Cal. Cond:  25.9
Ca:  128.2           Mg:    88.8        Na:    44.4         K:  16.6       NH4:  1.7
SO4:    73.3      HCO3:    71.6       Cl:    10.7       NO3:   0.3         F:   1.5
Sum Cations:  280.0  Sum Anions:   157.5  Cations/Anions: 1.78   Tot. P:  10.0
Tot. Al:    59.0    Ext. Al:    7.0     Fe:   140.0      Mn:    20.0     SiO2:  1.53

ID: 2A3-086   Name: SPRING LAKE                        State: MN  Date: 21OCT84
Sample Type: SPC/LTM/            Latitude: 48-22'22"N   Longitude: 92-37'48"W
Elevation:  354   Surface Temp: 10.9  Stratified: MIXED     Site Depth:  18.6
Lake Area:       90 Watershed Area:     399 WA/LA:      4.4 Hydro Type: DRAINAGE
Residence Time:  7.34  Secchi Depth:  4.2   Turbidity:   0.7      Color:    17
Closed pH: 7.11        Equil. pH: 7.73              ANC:  257.3          DOC: 10.40
Closed DIC:  3.13   Equil. DIC:  2.68     Meas. Cond:  33.9   Cal. Cond:  39.2
Ca:  193.1           Mg:   134.1        Na:    43.9         K:  20.5       NH4:  0.0
SO4:    64.1      HCO3:   246.6       Cl:     8.2       NO3:   0.0         F:   1.6
Sum Cations:  391.6  Sum Anions:   321.0  Cations/Anions: 1.22   Tot. P:  17.0
Tot. Al:     9.0    Ext. Al:    3.0     Fe:    20.0      Mn:     0.0     SiO2:  0.30

ID: 2A3-087   Name: LONG LAKE                          State: MN  Date: 21OCT84
Sample Type: SPC/LTM/            Latitude: 48-18'25"N   Longitude: 92-43'30"W
Elevation:  372   Surface Temp:  9.2  Stratified: MIXED     Site Depth:   3.4
Lake Area:      193 Watershed Area:    3805 WA/LA:     19.7 Hydro Type: DRAINAGE
Residence Time:  0.50  Secchi Depth:  3.0   Turbidity:   0.7      Color:    33
Closed pH: 7.58        Equil. pH: 8.32              ANC:  990.6          DOC: 16.70
Closed DIC: 11.79   Equil. DIC: 10.32     Meas. Cond:  98.1   Cal. Cond: 111.8
Ca:  632.7           Mg:   422.8        Na:    40.9         K:  23.8       NH4:  1.2
SO4:    59.5      HCO3:   926.3       Cl:     8.7       NO3:   9.5         F:   2.4
Sum Cations: 1121.4  Sum Anions:  1012.1  Cations/Anions: 1.11   Tot. P:  27.0
Tot. Al:    13.0    Ext. Al:    2.0     Fe:    30.0      Mn:     0.0     SiO2:  8.74

ID: 2A3-088   Name: DUNNIGAN LAKE                      State: MN  Date: 08OCT84
Sample Type: SPC/NRC/            Latitude: 47-42'30"N   Longitude: 91-37'50"W
Elevation:  506   Surface Temp: 12.2  Stratified: MIXED     Site Depth:   4.0
Lake Area:       33 Watershed Area:      73 WA/LA:      2.3 Hydro Type: SEEPAGE
Residence Time:     *  Secchi Depth:  2.6   Turbidity:   0.7      Color:    17
Closed pH: 6.89        Equil. pH: 6.44              ANC:   48.0          DOC:  5.80
Closed DIC:  0.61   Equil. DIC:  0.49     Meas. Cond:  14.7   Cal. Cond:  10.0
Ca:   41.9           Mg:    55.9        Na:    17.8         K:  12.8       NH4:  0.6
SO4:     4.6      HCO3:    30.7       Cl:     9.3       NO3:   0.0         F:   1.7
Sum Cations:  129.4  Sum Anions:    46.3  Cations/Anions: 2.79   Tot. P:   9.0
Tot. Al:    23.0    Ext. Al:    2.0     Fe:     0.0      Mn:     0.0     SiO2:  0.08

ID: 2B2-101   Name: MURRAY LAKE                        State: MI  Date: 24OCT84
Sample Type: SPC/LTM/            Latitude: 46-28'15"N   Longitude: 85-42'05"W
Elevation:  272   Surface Temp:  8.2  Stratified: MIXED     Site Depth:   3.0
Lake Area:       38 Watershed Area:     636 WA/LA:     16.8 Hydro Type: DRAINAGE
Residence Time:  0.19  Secchi Depth:  1.1   Turbidity:   1.0      Color:    18
Closed pH: 5.88        Equil. pH: 6.30              ANC:   45.3          DOC:  4.20
Closed DIC:  0.60   Equil. DIC:  0.28     Meas. Cond:  11.2   Cal. Cond:  11.2
Ca:   42.9           Mg:    25.5        Na:    12.6         K:   9.4       NH4:  0.6
SO4:    53.2      HCO3:    11.6       Cl:     6.9       NO3:   0.0         F:   0.7
Sum Cations:   92.6  Sum Anions:    72.4  Cations/Anions: 1.28   Tot. P:  12.5
Tot. Al:    24.5    Ext. Al:    5.0     Fe:    20.0      Mn:     0.0     SiO2:  0.02
```

(continued)

TABLE 4-1 (continued)

```
ID: 282-102   Name: BUCKEYE LAKE                          State: MI  Date: 24OCT84
Sample Type: SPC/LTM/             Latitude: 46-27'57"N    Longitude: 85-44'19"W
Elevation:  274   Surface Temp:  9.8  Stratified: MIXED      Site Depth:   6.4
Lake Area:      48 Watershed Area:    328 WA/LA:      6.9 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  3.4   Turbidity:   0.5      Color:    5
Closed pH: 7.03        Equil. pH: 7.54              ANC:  169.0        DOC:  2.90
Closed DIC:  2.28   Equil. DIC:  2.02    Meas. Cond:  29.7   Cal. Cond:  30.4
Ca:  163.2          Mg:   77.3        Na:    22.6          K:  15.6      NH4:  0.6
SO4:   87.2       HCO3:  145.8        Cl:    9.0         NO3:   0.4        F:  1.0
Sum Cations:  279.4  Sum Anions:  243.6  Cations/Anions: 1.15   Tot. P:  12.0
Tot. Al:    17.0   Ext. Al:   1.0    Fe:    10.0      Mn:     0.0    SiO2:  0.11

ID: 282-103   Name: STUART LAKE                           State: MI  Date: 23OCT84
Sample Type: SPC/LTM/             Latitude: 46-35'24"N    Longitude: 85-30'35"W
Elevation:  245   Surface Temp:  9.6  Stratified: MIXED      Site Depth:   5.2
Lake Area:      30 Watershed Area:    150 WA/LA:      5.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  4.1   Turbidity:   0.4      Color:   10
Closed pH: 4.90        Equil. pH: 4.91              ANC:  -18.5        DOC:  2.20
Closed DIC:  0.31   Equil. DIC:  0.17    Meas. Cond:  15.9   Cal. Cond:  16.2
Ca:    28.4         Mg:   23.9        Na:     7.8          K:  11.5      NH4:  4.4
SO4:   72.5       HCO3:    0.9        Cl:     6.5        NO3:   0.0        F:  0.7
Sum Cations:   91.2  Sum Anions:   80.6  Cations/Anions: 1.13   Tot. P:   9.0
Tot. Al:    34.0   Ext. Al:  15.0    Fe:    20.0      Mn:    40.0    SiO2:  0.00

ID: 282-104   Name: CAMP EIGHT LAKE                       State: MI  Date: 24OCT84
Sample Type: SPC/LTM/             Latitude: 46-35'57"N    Longitude: 85-40'12"W
Elevation:  230   Surface Temp: 10.8  Stratified: WEAK       Site Depth:  20.4
Lake Area:      25 Watershed Area:     49 WA/LA:      1.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  5.1   Turbidity:   0.3      Color:    5
Closed pH: 6.89        Equil. pH: 7.29              ANC:   95.0        DOC:  2.80
Closed DIC:  1.40   Equil. DIC:  1.15    Meas. Cond:  19.3   Cal. Cond:  20.1
Ca:    99.8         Mg:   45.2        Na:    20.9          K:  10.0      NH4:  0.6
SO4:   64.8       HCO3:   91.6        Cl:     7.6        NO3:   0.6        F:  0.9
Sum Cations:  176.6  Sum Anions:  165.5  Cations/Anions: 1.07   Tot. P:   0.0
Tot. Al:     7.0   Ext. Al:   1.0    Fe:    20.0      Mn:     0.0    SiO2:  0.72

ID: 282-105   Name: CUSINO LAKE                           State: MI  Date: 20OCT84
Sample Type: SPC/LTM/             Latitude: 46-27'16"N    Longitude: 86-15'30"W
Elevation:  267   Surface Temp: 10.5  Stratified: MIXED      Site Depth:   5.5
Lake Area:      55 Watershed Area:    442 WA/LA:      8.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.3   Turbidity:   0.5      Color:   10
Closed pH: 5.37        Equil. pH: 5.42              ANC:    3.3        DOC:  5.20
Closed DIC:  0.27   Equil. DIC:  0.36    Meas. Cond:  14.7   Cal. Cond:  15.0
Ca:    63.9         Mg:   23.9        Na:    10.4          K:   8.2      NH4:  0.5
SO4:   82.4       HCO3:    3.7        Cl:     6.5        NO3:   0.0        F:  0.7
Sum Cations:  111.0  Sum Anions:   93.4  Cations/Anions: 1.19   Tot. P:  15.0
Tot. Al:    17.0   Ext. Al:  17.0    Fe:    10.0      Mn:    20.0    SiO2:  0.18

ID: 282-106   Name: NEVINS LAKE                           State: MI  Date: 20OCT84
Sample Type: SPC/LTM/             Latitude: 46-31'00"N    Longitude: 86-14'35"W
Elevation:  278   Surface Temp: 10.5  Stratified: MIXED      Site Depth:   3.0
Lake Area:     109 Watershed Area:    313 WA/LA:      2.9 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.0   Turbidity:   0.8      Color:   15
Closed pH: 7.00        Equil. pH: 7.45              ANC:  135.1        DOC:  6.40
Closed DIC:  1.66   Equil. DIC:  1.67    Meas. Cond:  26.0   Cal. Cond:  31.3
Ca:  189.6          Mg:   60.0        Na:    18.7          K:   7.9      NH4:  0.5
SO4:  102.0       HCO3:  141.9        Cl:     9.0        NO3:   0.0        F:  0.9
Sum Cations:  276.9  Sum Anions:  254.1  Cations/Anions: 1.09   Tot. P:  11.0
Tot. Al:    19.0   Ext. Al:   3.0    Fe:     0.0      Mn:     0.0    SiO2:  0.23
```

(continued)

TABLE 4-1 (continued)

```
ID: 283-081   Name: MONOCLE LAKE                          State: MI  Date: 22OCT84
Sample Type: SPC/LTM/             Latitude: 46-28'30"N   Longitude: 84-38'45"W
Elevation:  195  . Surface Temp: 10.8  Stratified: MIXED      Site Depth:  15.8
Lake Area:     69 Watershed Area:    800 WA/LA:     11.6 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  5.2   Turbidity:   0.4      Color:     5
Closed pH: 7.31        Equil. pH: 7.89               ANC:  237.0         DOC:  3.30
Closed DIC:  2.83   Equil. DIC:  2.98    Meas. Cond:  39.5   Cal. Cond:  40.7
Ca:  216.6          Mg:    95.4        Na:    41.8        K:  13.3      NH4:   3.3
SO4:   111.2      HCO3:  209.4       Cl:    13.3       NO3:    1.1         F:   1.6
Sum Cations:  370.5  Sum Anions:  337.1  Cations/Anions: 1.10   Tot. P:  17.0
Tot. Al:    33.0    Ext. Al:    4.0     Fe:    20.0      Mn:     0.0    SiO2:  0.33

ID: 283-082   Name: WARNERS LAKE                          State: MI  Date: 23OCT84
Sample Type: SPC/LTM/NRC/         Latitude: 46-42'00"N   Longitude: 85-02'25"W
Elevation:  190   Surface Temp: 10.0  Stratified: MIXED      Site Depth:    7.6
Lake Area:     13 Watershed Area:    186 WA/LA:     14.3 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.7   Turbidity:   0.9      Color:    35
Closed pH: 5.85        Equil. pH: 6.36               ANC:   15.8         DOC:  5.80
Closed DIC:  0.68   Equil. DIC:  0.33    Meas. Cond:  19.7   Cal. Cond:  19.3
Ca:   72.4          Mg:    43.6        Na:    25.2        K:  11.8      NH4:   7.2
SO4:   100.8      HCO3:   11.7       Cl:    11.6       NO3:    0.4         F:   1.1
Sum Cations:  161.6  Sum Anions:  125.5  Cations/Anions: 1.29   Tot. P:  55.0
Tot. Al:    75.0    Ext. Al:    9.0     Fe:   180.0      Mn:    10.0    SiO2:  0.94

ID: 283-083   Name: KELLY LAKE                            State: MI  Date: 23OCT84
Sample Type: SPC/LTM/             Latitude: 46-26'24"N   Longitude: 85-38'45"W
Elevation:  255   Surface Temp: 11.1  Stratified: MIXED      Site Depth:    9.4
Lake Area:     12 Watershed Area:    211 WA/LA:     17.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  5.5   Turbidity:   0.6      Color:    10
Closed pH: 5.23        Equil. pH: 5.24               ANC:    3.0         DOC:  1.70
Closed DIC:  0.51   Equil. DIC:  0.17    Meas. Cond:  14.5   Cal. Cond:  16.2
Ca:   44.9          Mg:    19.7        Na:    11.3        K:  10.6      NH4:   2.2
SO4:    85.2      HCO3:    2.8       Cl:    27.1       NO3:    0.0         F:   0.6
Sum Cations:   94.4  Sum Anions:  115.6  Cations/Anions: 0.82   Tot. P:   0.0
Tot. Al:    25.0    Ext. Al:    4.0     Fe:     0.0      Mn:    20.0    SiO2:  0.00

ID: 283-084   Name: CHRIS BROWN LAKE                      State: MI  Date: 23OCT84
Sample Type: SPC/LTM/             Latitude: 46-37'34"N   Longitude: 85-30'27"W
Elevation:  215   Surface Temp:  7.8  Stratified: MIXED      Site Depth:    3.7
Lake Area:     24 Watershed Area:    215 WA/LA:      9.1 Hydro Type: DRAINAGE
Residence Time:  0.40  Secchi Depth:  3.7   Turbidity:   0.6      Color:    20
Closed pH: 7.25        Equil. pH: 7.52               ANC:  218.0         DOC:  6.70
Closed DIC:  2.57   Equil. DIC:  2.31    Meas. Cond:  31.9   Cal. Cond:  31.7
Ca:  177.6          Mg:    84.7        Na:    29.1        K:  14.6      NH4:   4.4
SO4:    66.6      HCO3:  172.2       Cl:     8.5       NO3:    0.7         F:   1.2
Sum Cations:  310.7  Sum Anions:  249.4  Cations/Anions: 1.25   Tot. P:   1.0
Tot. Al:    16.0    Ext. Al:    0.0     Fe:    20.0      Mn:     0.0    SiO2:  0.25

ID: 2C1-061   Name: DUCK LAKE                             State: WI  Date: 08NOV84
Sample Type: SPC/LTM/             Latitude: 45-22'50"N   Longitude: 89-14'45"W
Elevation:  523   Surface Temp:  2.9  Stratified: MIXED      Site Depth:    3.0
Lake Area:     49 Watershed Area:    241 WA/LA:      4.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.9   Turbidity:   0.4      Color:    50
Closed pH: 5.42        Equil. pH: 5.52               ANC:   15.2         DOC:  6.90
Closed DIC:  0.36   Equil. DIC:  0.20    Meas. Cond:  21.4   Cal. Cond:  20.4
Ca:   69.4          Mg:    51.8        Na:    30.0        K:  11.8      NH4:   0.6
SO4:    92.0      HCO3:    3.9       Cl:    24.5       NO3:    4.3         F:   1.4
Sum Cations:  167.3  Sum Anions:  126.2  Cations/Anions: 1.33   Tot. P:  11.0
Tot. Al:    81.0    Ext. Al:   39.0     Fe:   120.0      Mn:    20.0    SiO2:  0.38
```

(continued)

TABLE 4-1 (continued)

```
ID: 2C1-062   Name: SUMMIT LAKE                         State: WI  Date: 05NOV84
Sample Type: SPC/LTM/           Latitude: 45-22'30"N   Longitude: 89-12'25"W
Elevation:  515   Surface Temp:  2.9  Stratified: MIXED      Site Depth:   7.0
Lake Area:     112 Watershed Area:     666 WA/LA:     5.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.1   Turbidity:   1.2     Color:  120
Closed pH: 4.86        Equil. pH: 4.86              ANC:   -3.8        DOC:  9.70
Closed DIC:  0.38   Equil. DIC:  0.00    Meas. Cond:  22.1   Cal. Cond:  22.3
Ca:   60.4          Mg:    39.1        Na:    23.9        K:  12.9       NH4:  2.9
SO4:    94.7       HCO3:     1.1       Cl:    22.8      NO3:    1.3          F:  1.1
Sum Cations:  152.7  Sum Anions:  121.1  Cations/Anions: 1.26   Tot. P:   10.5
Tot. Al:  199.5    Ext. Al:  80.5     Fe:  430.0      Mn:    70.0    SiO2:  0.72

ID: 2C1-063   Name: SUNSET LAKE                         State: WI  Date: 30OCT84
Sample Type: SPC/LTM/           Latitude: 45-55'35"N   Longitude: 89-20'15"W
Elevation:  497   Surface Temp:  8.2  Stratified: MIXED      Site Depth:   9.8
Lake Area:      83 Watershed Area:     303 WA/LA:     3.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.9   Turbidity:   0.4     Color:    5
Closed pH: 6.38        Equil. pH: 6.68              ANC:   22.5        DOC:  2.15
Closed DIC:  0.48   Equil. DIC:  0.46    Meas. Cond:  15.1   Cal. Cond:  15.5
Ca:   60.9          Mg:    30.4        Na:    17.6        K:   7.9       NH4:  0.6
SO4:    84.1       HCO3:    21.2       Cl:    11.1      NO3:    0.1          F:  1.0
Sum Cations:  118.0  Sum Anions:  117.6  Cations/Anions: 1.00   Tot. P:   13.0
Tot. Al:   11.5    Ext. Al:   0.5     Fe:    0.0      Mn:     0.0    SiO2:  0.00

ID: 2C1-064   Name: VANDERCOOK LAKE                     State: WI  Date: 30OCT84
Sample Type: SPC/LTM/           Latitude: 45-58'55"N   Longitude: 89-41'13"W
Elevation:  497   Surface Temp:  8.4  Stratified: MIXED      Site Depth:   6.7
Lake Area:      39 Watershed Area:     161 WA/LA:     4.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.6   Turbidity:   0.8     Color:   10
Closed pH: 6.25        Equil. pH: 6.60              ANC:   12.0        DOC:  3.60
Closed DIC:  0.50   Equil. DIC:  0.35    Meas. Cond:  14.4   Cal. Cond:  14.6
Ca:   55.9          Mg:    31.3        Na:    15.7        K:   9.2       NH4:  0.6
SO4:    81.8       HCO3:    16.9       Cl:     6.5      NO3:    0.0          F:  0.8
Sum Cations:  113.3  Sum Anions:  106.0  Cations/Anions: 1.07   Tot. P:   13.0
Tot. Al:   24.0    Ext. Al:   0.0     Fe:    0.0      Mn:     0.0    SiO2:  0.02

ID: 2C1-065   Name: GREATER BASS LAKE                   State: WI  Date: 05NOV84
Sample Type: SPC/LTM/           Latitude: 45-21'25"N   Longitude: 89-11'30"W
Elevation:  512   Surface Temp:  3.7  Stratified: MIXED      Site Depth:   7.9
Lake Area:     100 Watershed Area:     466 WA/LA:     4.7 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  3.6   Turbidity:   0.3     Color:   25
Closed pH: 5.60        Equil. pH: 5.69              ANC:   10.2        DOC:  4.50
Closed DIC:  0.25   Equil. DIC:  0.10    Meas. Cond:  17.3   Cal. Cond:  19.3
Ca:   64.9          Mg:    39.5        Na:    24.8        K:  14.6       NH4:  1.4
SO4:    95.1       HCO3:     8.4       Cl:    24.0      NO3:    1.5          F:  1.1
Sum Cations:  147.9  Sum Anions:  130.1  Cations/Anions: 1.14   Tot. P:    5.0
Tot. Al:   56.0    Ext. Al:  18.0     Fe:   90.0      Mn:    10.0    SiO2:  0.07

ID: 2C1-066   Name: CAMP TEN LAKE                       State: WI  Date: 30OCT84
Sample Type: SPC/LTM/           Latitude: 45-59'50"N   Longitude: 89-23'05"W
Elevation:  503   Surface Temp:  9.1  Stratified: MIXED      Site Depth:   9.1
Lake Area:      13 Watershed Area:      83 WA/LA:     6.2 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.1   Turbidity:   0.5     Color:   15
Closed pH: 6.67        Equil. pH: 7.12              ANC:   68.0        DOC:  2.00
Closed DIC:  1.11   Equil. DIC:  0.85    Meas. Cond:  20.0   Cal. Cond:  20.2
Ca:   78.3          Mg:    59.2        Na:    22.2        K:   8.4       NH4:  1.7
SO4:    87.4       HCO3:    61.0       Cl:     7.6      NO3:    1.4          F:  0.9
Sum Cations:  170.1  Sum Anions:  158.4  Cations/Anions: 1.07   Tot. P:   13.0
Tot. Al:   22.0    Ext. Al:   1.0     Fe:    0.0      Mn:     0.0    SiO2:  0.00
```

(continued)

TABLE 4-1 (continued)

```
ID: 2C1-067   Name: ELNA LAKE                              State: WI  Date: 27OCT84
Sample Type: SPC/LTM/           Latitude: 45-41'36"N    Longitude: 89-34'05"W
Elevation:  486   Surface Temp:  8.1  Stratified: MIXED      Site Depth:   3.7
Lake Area:        8 Watershed Area:      28 WA/LA:      3.4 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.8   Turbidity:   0.4      Color:    15
Closed pH: 6.36       Equil. pH: 6.83             ANC:    56.0        DOC:  4.00
Closed DIC:  1.17   Equil. DIC:  0.68    Meas. Cond:  13.6   Cal. Cond:  13.4
Ca:   53.9          Mg:    41.1        Na:    19.1       K:   6.9     NH4:   0.6
SO4:   43.1        HCO3:    51.7        Cl:     7.4     NO3:   0.2       F:   1.3
Sum Cations:  122.0  Sum Anions:  103.7  Cations/Anions: 1.18   Tot. P:  17.0
Tot. Al:    10.0    Ext. Al:   2.0    Fe:    50.0     Mn:    10.0   SiO2:  0.05

ID: 2C1-068   Name: SAND LAKE                              State: WI  Date: 27OCT84
Sample Type: SPC/LTM/           Latitude: 45-43'28"N    Longitude: 89-39'05"W
Elevation:  484   Surface Temp:  9.1  Stratified: MIXED      Site Depth:   4.6
Lake Area:       15 Watershed Area:      39 WA/LA:      2.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  5.5   Turbidity:   0.1      Color:     5
Closed pH: 5.17       Equil. pH: 5.13             ANC:     9.0        DOC:  1.10
Closed DIC:  0.23   Equil. DIC:  0.17    Meas. Cond:  23.6   Cal. Cond:  24.5
Ca:   81.3          Mg:    37.8        Na:    24.4       K:  10.5     NH4:   0.0
SO4:  148.4        HCO3:     1.4        Cl:    12.8     NO3:   0.0       F:   0.9
Sum Cations:  161.8  Sum Anions:  163.6  Cations/Anions: 0.99   Tot. P:   5.0
Tot. Al:    35.0    Ext. Al:   1.0    Fe:     0.0     Mn:    20.0   SiO2:  0.00

ID: 2C1-069   Name: NICHOLS LAKE                           State: WI  Date: 09OCT84
Sample Type: SPC/LTM/           Latitude: 46-06'14"N    Longitude: 89-41'15"W
Elevation:  495   Surface Temp: 12.5  Stratified: MIXED      Site Depth:   4.2
Lake Area:       15 Watershed Area:      91 WA/LA:      6.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.0   Turbidity:   1.1      Color:    20
Closed pH: 5.70       Equil. pH: 6.00             ANC:    14.0        DOC:  5.00
Closed DIC:  0.52   Equil. DIC:  0.20    Meas. Cond:  13.8   Cal. Cond:  13.5
Ca:   52.9          Mg:    29.6        Na:    11.7       K:   9.7     NH4:   0.6
SO4:   72.5        HCO3:     6.7        Cl:     6.8     NO3:   1.8       F:   0.7
Sum Cations:  106.4  Sum Anions:   88.5  Cations/Anions: 1.20   Tot. P:  95.0
Tot. Al:    20.0    Ext. Al:  11.0    Fe:    20.0     Mn:    10.0   SiO2:  0.20

ID: 2C1-070   Name: CRYSTAL LAKE                           State: WI  Date: 30OCT84
Sample Type: SPC/NRC/           Latitude: 46-00'05"N    Longitude: 89-36'45"W
Elevation:  502   Surface Temp:  9.7  Stratified: MIXED      Site Depth:  19.2
Lake Area:       37 Watershed Area:      88 WA/LA:      2.3 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  4.4   Turbidity:   0.5      Color:    10
Closed pH: 6.04       Equil. pH: 6.49             ANC:    12.5        DOC:  1.30
Closed DIC:  0.69   Equil. DIC:  0.38    Meas. Cond:  13.4   Cal. Cond:  14.9
Ca:   52.4          Mg:    21.4        Na:    14.4       K:   8.7     NH4:   0.6
SO4:   90.2        HCO3:    18.4        Cl:    11.6     NO3:   0.0       F:   0.5
Sum Cations:   98.2  Sum Anions:  120.7  Cations/Anions: 0.81   Tot. P:   7.0
Tot. Al:    10.0    Ext. Al:   0.0    Fe:    10.0     Mn:    70.0   SiO2:  0.00

ID: 2C1-071   Name: LITTLE ROCK LAKE                       State: WI  Date: 30OCT84
Sample Type: SPC/LTM/NRC/       Latitude: 45-59'55"N    Longitude: 89-42'15"W
Elevation:  495   Surface Temp:  8.1  Stratified: MIXED      Site Depth:   9.1
Lake Area:       16 Watershed Area:      88 WA/LA:      5.6 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.1   Turbidity:   0.4      Color:    10
Closed pH: 6.33       Equil. pH: 6.78             ANC:    24.0        DOC:  2.70
Closed DIC:  0.60   Equil. DIC:  0.52    Meas. Cond:  10.9   Cal. Cond:  10.9
Ca:   40.9          Mg:    23.9        Na:     6.5       K:  14.8     NH4:   0.0
SO4:   49.8        HCO3:    23.9        Cl:     6.5     NO3:   0.0       F:   0.6
Sum Cations:   86.7  Sum Anions:   80.7  Cations/Anions: 1.07   Tot. P:  16.0
Tot. Al:    11.0    Ext. Al:   1.0    Fe:    20.0     Mn:     0.0   SiO2:  0.02
```

(continued)

TABLE 4-1 (continued)

```
ID: 2C1-072   Name: MIDGE(LARRAINE)LAKE           State: WI  Date: 30OCT84
Sample Type: SPC/NRC/           Latitude: 46-00'05"N    Longitude: 89-41'40"W
Elevation:  495   Surface Temp:  7.9  Stratified: MIXED      Site Depth:  10.4
Lake Area:       3 Watershed Area:      13 WA/LA:      4.1 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.6   Turbidity:   0.7       Color:   30
Closed pH: 6.34       Equil. pH: 7.03              ANC:   71.0        DOC:  3.90
Closed DIC:  1.79   Equil. DIC:  0.92   Meas. Cond:  46.7   Cal. Cond:  48.2
Ca:   91.8          Mg:    64.2       Na:  204.9          K:  18.9       NH4:   3.3
SO4:   53.1       HCO3:    82.8       Cl:  254.2        NO3:   0.0         F:   1.2
Sum Cations:  383.4  Sum Anions:  391.4  Cations/Anions: 0.98   Tot. P:  13.0
Tot. Al:   24.0    Ext. Al:   1.0    Fe:    90.0     Mn:    50.0    SiO2:  0.37


ID: 2C1-073   Name: LONG LAKE                     State: WI  Date: 07NOV84
Sample Type: SPC/LTM/           Latitude: 45-43'00"N    Longitude: 89-36'15"W
Elevation:  483   Surface Temp:  5.4  Stratified: MIXED      Site Depth:  16.2
Lake Area:      46 Watershed Area:     181 WA/LA:      4.0 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  5.1   Turbidity:   0.3       Color:   10
Closed pH: 6.13       Equil. pH: 6.83              ANC:   24.9        DOC:  2.20
Closed DIC:  0.68   Equil. DIC:  0.36   Meas. Cond:  15.7   Cal. Cond:  16.1
Ca:   59.4          Mg:    30.4       Na:    14.8         K:  14.8       NH4:   0.0
SO4:   79.7       HCO3:    21.1       Cl:    19.2       NO3:   0.6         F:   1.0
Sum Cations:  120.2  Sum Anions:  121.6  Cations/Anions: 0.99   Tot. P:   8.0
Tot. Al:   16.0    Ext. Al:   1.0    Fe:    30.0     Mn:    20.0    SiO2:  0.00


ID: 2C1-074   Name: CLEAR LAKE                    State: WI  Date: 05NOV84
Sample Type: SPC/LTM/           Latitude: 45-22'00"N    Longitude: 89-13'50"W
Elevation:  519   Surface Temp:  4.0  Stratified: MIXED      Site Depth:   6.4
Lake Area:      35 Watershed Area:     124 WA/LA:      3.5 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  3.2   Turbidity:   0.4       Color:   20
Closed pH: 5.03       Equil. pH: 5.01              ANC:   -6.5        DOC:  3.20
Closed DIC:  0.26   Equil. DIC:  0.15   Meas. Cond:  15.3   Cal. Cond:  17.0
Ca:   40.9          Mg:    30.4       Na:    14.8         K:  11.0       NH4:   0.7
SO4:   87.9       HCO3:     1.3       Cl:    13.0       NO3:   0.0         F:   0.9
Sum Cations:  107.1  Sum Anions:  103.1  Cations/Anions: 1.04   Tot. P:   7.0
Tot. Al:   46.0    Ext. Al:  26.0    Fe:    20.0     Mn:    30.0    SiO2:  0.18


ID: 2C1-075   Name: CAMP TWELVE LAKE              State: WI  Date: 04NOV84
Sample Type: SPC/LTM/           Latitude: 45-59'03"N    Longitude: 89-22'14"W
Elevation:  501   Surface Temp:  3.7  Stratified: MIXED      Site Depth:   4.6
Lake Area:      22 Watershed Area:     168 WA/LA:      7.8 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  4.4   Turbidity:   0.3       Color:   15
Closed pH: 5.33       Equil. pH: 5.37              ANC:    4.0        DOC:  2.80
Closed DIC:  0.32   Equil. DIC:  0.12   Meas. Cond:  12.2   Cal. Cond:  12.2
Ca:   35.9          Mg:    22.2       Na:     6.5         K:   8.7       NH4:   1.1
SO4:   64.3       HCO3:     2.0       Cl:     5.6       NO3:   1.9         F:   1.9
Sum Cations:   80.1  Sum Anions:   75.7  Cations/Anions: 1.06   Tot. P:   5.0
Tot. Al:   18.0    Ext. Al:   2.0    Fe:     0.0     Mn:    20.0    SiO2:  0.00


ID: 2C2-061   Name: FINLEY LAKE                   State: WI  Date: 31OCT84
Sample Type: SPC/LTM/           Latitude: 45-54'40"N    Longitude: 89-25'00"W
Elevation:  493   Surface Temp:  7.9  Stratified: MIXED      Site Depth:   6.7
Lake Area:      44 Watershed Area:     117 WA/LA:      2.7 Hydro Type: SEEPAGE
Residence Time:   *    Secchi Depth:  2.9   Turbidity:   0.7       Color:   10
Closed pH: 6.88       Equil. pH: 6.96              ANC:   80.0        DOC:  4.00
Closed DIC:  1.26   Equil. DIC:  1.09   Meas. Cond:  20.1   Cal. Cond:  21.0
Ca:   88.3          Mg:    55.1       Na:    26.1         K:   9.7       NH4:   4.4
SO4:   75.2       HCO3:    79.0       Cl:     9.6       NO3:   1.7         F:   1.3
Sum Cations:  183.9  Sum Anions:  166.8  Cations/Anions: 1.10   Tot. P:  14.0
Tot. Al:   20.0    Ext. Al:   0.0    Fe:     0.0     Mn:     0.0    SiO2:  0.02
```

(continued)

TABLE 4-1 (continued)

```
ID: 2C2-062   Name: LUNA LAKE                               State: WI  Date: 10OCT84
Sample Type: SPC/LTM/            Latitude: 45-54'19"N    Longitude: 88-57'35"W
Elevation:  518   Surface Temp: 12.9  Stratified: MIXED      Site Depth:   8.8
Lake Area:      26 Watershed Area:      80 WA/LA:      3.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  4.8   Turbidity:   0.3     Color:    5
Closed pH: 5.92        Equil. pH: 6.01              ANC:   10.0         DOC:  2.10
Closed DIC:  0.31   Equil. DIC:  0.15   Meas. Cond:  16.6   Cal. Cond:  18.7
Ca:   58.4           Mg:    37.0       Na:    14.4          K:  10.2      NH4:   0.6
SO4:  123.0       HCO3:     6.6       Cl:    12.7       NO3:   0.0         F:   0.6
Sum Cations:  122.3  Sum Anions:  143.0  Cations/Anions: 0.86   Tot. P:  10.0
Tot. Al:     0.0   Ext. Al:    4.0   Fe:     0.0      Mn:    0.0   SiO2:  0.12


ID: 2C2-063   Name: SUGAR CAMP LAKE                         State: WI  Date: 31OCT84
Sample Type: SPC/LTM/            Latitude: 45-48'00"N    Longitude: 89-18'15"W
Elevation:  506   Surface Temp:  7.6  Stratified: MIXED      Site Depth:  10.7
Lake Area:     210 Watershed Area:     407 WA/LA:      1.9 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.0   Turbidity:   0.8     Color:   10
Closed pH: 5.50        Equil. pH: 5.58              ANC:    4.0         DOC:  1.10
Closed DIC:  0.23   Equil. DIC:  0.21   Meas. Cond:  21.1   Cal. Cond:  21.6
Ca:   71.4           Mg:    30.4       Na:    27.0          K:  13.8      NH4:   3.3
SO4:  118.3       HCO3:     1.9       Cl:    27.4       NO3:   0.0         F:   0.7
Sum Cations:  150.0  Sum Anions:  148.2  Cations/Anions: 1.01   Tot. P:  15.0
Tot. Al:    37.0   Ext. Al:   10.0   Fe:     0.0      Mn:   30.0   SiO2:  0.03


ID: 2C2-064   Name: ALDRIDGE LAKE                           State: WI  Date: 31OCT84
Sample Type: SPC/NRC/            Latitude: 45-51'55"N    Longitude: 89-18'05"W
Elevation:  501   Surface Temp:  5.6  Stratified: MIXED      Site Depth:   3.4
Lake Area:      57 Watershed Area:     495 WA/LA:      8.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.4   Turbidity:   2.5     Color:   80
Closed pH: 6.88        Equil. pH: 7.31              ANC:  138.0         DOC:  9.30
Closed DIC:  1.60   Equil. DIC:  1.45   Meas. Cond:  49.5   Cal. Cond:  50.8
Ca:  177.6           Mg:   136.6       Na:   128.3          K:  12.5      NH4:   2.8
SO4:   54.1       HCO3:   101.1       Cl:   214.4       NO3:   1.2         F:   2.5
Sum Cations:  458.0  Sum Anions:  373.4  Cations/Anions: 1.23   Tot. P:  21.0
Tot. Al:    24.0   Ext. Al:    2.0   Fe:   460.0      Mn:    0.0   SiO2: 10.70


ID: 2C2-065   Name: BROWN LAKE                              State: WI  Date: 27OCT84
Sample Type: SPC/NRC/            Latitude: 45-46'50"N    Longitude: 89-29'30"W
Elevation:  489   Surface Temp:  8.5  Stratified: MIXED      Site Depth:   5.5
Lake Area:      37 Watershed Area:     140 WA/LA:      3.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.2   Turbidity:   0.7     Color:   10
Closed pH: 5.86        Equil. pH: 6.16              ANC:   10.8         DOC:  3.35
Closed DIC:  0.51   Equil. DIC:  0.22   Meas. Cond:  14.2   Cal. Cond:  14.0
Ca:   49.2           Mg:    28.0       Na:    12.2          K:  11.1      NH4:   5.8
SO4:   76.4       HCO3:    11.6       Cl:     6.6       NO3:   1.6         F:   0.9
Sum Cations:  107.6  Sum Anions:   97.1  Cations/Anions: 1.11   Tot. P:  17.0
Tot. Al:    36.0   Ext. Al:    3.5   Fe:    10.0      Mn:   10.0   SiO2:  0.04


ID: 2C2-066   Name: FOUND LAKE                              State: WI  Date: 31OCT84
Sample Type: SPC/NRC/            Latitude: 45-57'05"N    Longitude: 89-27'10"W
Elevation:  493   Surface Temp:  6.0  Stratified: MIXED      Site Depth:   3.7
Lake Area:     137 Watershed Area:     738 WA/LA:      5.4 Hydro Type: DRAINAGE
Residence Time: 0.06  Secchi Depth:  1.9   Turbidity:   2.8     Color:   25
Closed pH: 7.20        Equil. pH: 7.53              ANC:  333.0         DOC:  4.30
Closed DIC:  4.42   Equil. DIC:  3.00   Meas. Cond:  43.4   Cal. Cond:  45.0
Ca:  238.5           Mg:   147.2       Na:    48.7          K:  11.5      NH4:   4.4
SO4:   46.8       HCO3:   313.7       Cl:    14.1       NO3:   6.3         F:   2.1
Sum Cations:  450.5  Sum Anions:  383.6  Cations/Anions: 1.17   Tot. P:  18.0
Tot. Al:     3.0   Ext. Al:    1.0   Fe:   150.0      Mn:   10.0   SiO2: 12.20
```

(continued)

TABLE 4-1 (continued)

```
ID: 2C2-067   Name: MOON LAKE                         State: WI  Date: 31OCT84
Sample Type: SPC/NRC/          Latitude: 45-55'05"N   Longitude: 89-26'05"W
Elevation:  493   Surface Temp:  7.9  Stratified: MIXED      Site Depth:  10.1
Lake Area:      53 Watershed Area:    202 WA/LA:      3.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  3.4  Turbidity:   0.5      Color:   20
Closed pH: 6.78       Equil. pH: 7.02             ANC:   83.0          DOC:  3.60
Closed DIC:  1.33   Equil. DIC:  1.12    Meas. Cond:  19.5   Cal. Cond:  20.2
Ca:   88.3           Mg:   58.4       Na:   22.2         K:   8.9      NH4:   2.8
SO4:   67.9      HCO3:   80.0       Cl:    8.2       NO3:   1.7          F:   1.3
Sum Cations:  180.8  Sum Anions:  159.1  Cations/Anions: 1.14   Tot. P:  13.0
Tot. Al:     9.0   Ext. Al:   0.0    Fe:   20.0     Mn:     0.0    SiO2:  0.22
```

```
ID: 2C3-061   Name: SMOKY LAKE                        State: MI  Date: 10OCT84
Sample Type: SPC/LTM/          Latitude: 46-05'45"N   Longitude: 88-56'30"W
Elevation:  518   Surface Temp: 13.7  Stratified: MIXED      Site Depth:  14.0
Lake Area:     338 Watershed Area:    640 WA/LA:      1.9 Hydro Type: CLOSED
Residence Time:    *    Secchi Depth:  3.4  Turbidity:   0.4      Color:   15
Closed pH: 7.29       Equil. pH: 7.71             ANC:  217.0          DOC:  3.10
Closed DIC:  2.85   Equil. DIC:  2.36    Meas. Cond:  31.3   Cal. Cond:  32.2
Ca:  147.7           Mg:  102.0       Na:   32.2         K:  10.5      NH4:   0.0
SO4:   75.4      HCO3:  195.0       Cl:   10.4       NO3:   0.0          F:   1.4
Sum Cations:  292.4  Sum Anions:  282.7  Cations/Anions: 1.03   Tot. P:   7.0
Tot. Al:     6.0   Ext. Al:   1.0    Fe:    0.0     Mn:     0.0    SiO2:  0.24
```

```
ID: 2C3-062   Name: BIG CROOKED LAKE                  State: WI  Date: 06NOV84
Sample Type: SPC/NRC/          Latitude: 46-02'00"N   Longitude: 89-51'25"W
Elevation:  492   Surface Temp:  6.2  Stratified: MIXED      Site Depth:  24.7
Lake Area:     160 Watershed Area:   2082 WA/LA:     13.0 Hydro Type: DRAINAGE
Residence Time:  2.92  Secchi Depth:  3.4  Turbidity:   0.8      Color:   20
Closed pH: 6.84       Equil. pH: 7.41             ANC:  179.8          DOC:  3.60
Closed DIC:  2.65   Equil. DIC:  2.08    Meas. Cond:  23.2   Cal. Cond:  27.2
Ca:  155.7           Mg:   60.0       Na:   18.7         K:  12.5      NH4:   2.7
SO4:   52.7      HCO3:  174.5       Cl:    7.1       NO3:   1.3          F:   1.1
Sum Cations:  249.8  Sum Anions:  236.8  Cations/Anions: 1.05   Tot. P:  32.0
Tot. Al:     4.0   Ext. Al:   3.0    Fe:   70.0     Mn:    20.0    SiO2:  0.74
```

```
ID: 2C3-063   Name: CHAIN LAKE                        State: WI  Date: 31OCT84
Sample Type: SPC/NRC/          Latitude: 45-50'30"N   Longitude: 89-22'05"W
Elevation:  487   Surface Temp:  5.9  Stratified: MIXED      Site Depth:   4.6
Lake Area:      84 Watershed Area:   2795 WA/LA:     33.4 Hydro Type: DRAINAGE
Residence Time:  0.23  Secchi Depth:  0.9  Turbidity:   7.5      Color:  135
Closed pH: 6.99       Equil. pH: 7.61             ANC:  296.0          DOC: 11.00
Closed DIC:  3.78   Equil. DIC:  2.95    Meas. Cond:  50.8   Cal. Cond:  50.8
Ca:  234.5           Mg:  162.1       Na:   79.6         K:  16.6      NH4:   9.4
SO4:   60.0      HCO3:  237.3       Cl:   81.8       NO3:   8.7          F:   2.5
Sum Cations:  502.3  Sum Anions:  390.5  Cations/Anions: 1.29   Tot. P:  57.0
Tot. Al:    46.0   Ext. Al:   3.0    Fe: 1050.0     Mn:    90.0    SiO2: 18.50
```

```
ID: 2C3-064   Name: DOG LAKE                          State: WI  Date: 10OCT84
Sample Type: SPC/NRC/          Latitude: 45-46'45"N   Longitude: 89-06'30"W
Elevation:  495   Surface Temp: 13.0  Stratified: MIXED      Site Depth:   5.2
Lake Area:      81 Watershed Area:  15698 WA/LA:    193.1 Hydro Type: DRAINAGE
Residence Time:  0.05  Secchi Depth:  1.1  Turbidity:   3.0      Color:  120
Closed pH: 6.98       Equil. pH: 7.75             ANC:  377.0          DOC: 15.80
Closed DIC:  4.32   Equil. DIC:  3.30    Meas. Cond:  51.4   Cal. Cond:  51.7
Ca:  261.5           Mg:  218.0       Na:   56.5         K:  14.6      NH4:   1.7
SO4:   65.2      HCO3:  265.7       Cl:   43.4       NO3:   0.3          F:   1.8
Sum Cations:  552.3  Sum Anions:  376.8  Cations/Anions: 1.47   Tot. P:  27.0
Tot. Al:    53.0   Ext. Al:  12.0    Fe:  480.0     Mn:    10.0    SiO2:  4.79
```

(continued)

TABLE 4-1 (continued)

```
ID: 2C3-065   Name: HARMONY LAKE                      State: WI  Date: 31OCT84
Sample Type: SPC/NRC/          Latitude: 45-57'10"N    Longitude: 89-11'20"W
Elevation:  503   Surface Temp:  5.6  Stratified: MIXED     Site Depth:    4.6
Lake Area:      21 Watershed Area:     259 WA/LA:     12.2 Hydro Type: DRAINAGE
Residence Time:  0.57  Secchi Depth:  2.6   Turbidity:   0.6      Color:    25
Closed pH: 5.57         Equil. pH: 5.76               ANC:    7.0        DOC:  4.20
Closed DIC:  0.41   Equil. DIC:  0.23    Meas. Cond:  13.1   Cal. Cond:   12.9
Ca:   39.4           Mg:   28.8        Na:    14.4       K:  11.5       NH4:   2.8
SO4:    58.3      HCO3:     5.5       Cl:    14.7       NO3:    1.5          F:   0.9
Sum Cations:    99.9  Sum Anions:    80.9  Cations/Anions: 1.24   Tot. P:    8.0
Tot. Al:    35.0    Ext. Al:  12.0     Fe:    40.0      Mn:    20.0     SiO2:  0.07

ID: 2C3-066   Name: ISLAND LAKE                       State: WI  Date: 10OCT84
Sample Type: SPC/NRC/          Latitude: 45-49'45"N    Longitude: 89-07'55"W
Elevation:  495   Surface Temp: 12.8  Stratified: MIXED     Site Depth:    6.1
Lake Area:     123 Watershed Area:   24577 WA/LA:    199.5 Hydro Type: DRAINAGE
Residence Time:  0.06  Secchi Depth:  1.9   Turbidity:   2.0      Color:    60
Closed pH: 7.35         Equil. pH: 7.76               ANC:  372.0        DOC:  9.70
Closed DIC:  4.34   Equil. DIC:  3.64    Meas. Cond:  53.2   Cal. Cond:   54.6
Ca:  253.0           Mg:  207.3        Na:    60.9       K:  16.4       NH4:   1.7
SO4:    82.2      HCO3:   293.5       Cl:    57.5       NO3:    0.4          F:   1.8
Sum Cations:   539.3  Sum Anions:   436.0  Cations/Anions: 1.24   Tot. P:   46.0
Tot. Al:    16.0    Ext. Al:   1.0     Fe:    30.0      Mn:    30.0     SiO2:  5.43

ID: 2C3-067   Name: OTTER LAKE                        State: WI  Date: 08OCT84
Sample Type: SPC/NRC/          Latitude: 45-26'30"N    Longitude: 89-32'45"W
Elevation:  496   Surface Temp: 12.6  Stratified: MIXED     Site Depth:    4.2
Lake Area:      14 Watershed Area:      98 WA/LA:      7.2 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  1.9   Turbidity:   1.0      Color:    50
Closed pH: 6.38         Equil. pH: 6.81               ANC:   67.0        DOC: 11.50
Closed DIC:  0.89   Equil. DIC:  0.41    Meas. Cond:  21.4   Cal. Cond:   22.0
Ca:  101.8           Mg:   60.9        Na:    13.0       K:  18.4       NH4:   0.6
SO4:    68.5      HCO3:    30.0       Cl:    44.6       NO3:    3.8          F:   1.5
Sum Cations:   195.1  Sum Anions:   148.4  Cations/Anions: 1.31   Tot. P:   15.0
Tot. Al:    56.0    Ext. Al:  23.0     Fe:    50.0      Mn:     0.0     SiO2:  0.50

ID: 2C3-06u   Name: PLUMMER LAKE                      State: WI  Date: 01NOV84
Sample Type: SPC/NRC/          Latitude: 45-58'10"N    Longitude: 89-46'30"W
Elevation:  490   Surface Temp:  8.2  Stratified: MIXED     Site Depth:   15.5
Lake Area:      89 Watershed Area:     197 WA/LA:      2.2 Hydro Type: CLOSED
Residence Time:    *   Secchi Depth:  4.1   Turbidity:   0.5      Color:    15
Closed pH: 7.39         Equil. pH: 7.78               ANC:  357.0        DOC:  2.70
Closed DIC:  4.63   Equil. DIC:  4.13    Meas. Cond:  45.2   Cal. Cond:   45.2
Ca:  254.5           Mg:  140.7        Na:    41.3       K:  12.3       NH4:   1.1
SO4:    55.2      HCO3:   321.1       Cl:     7.3       NO3:    1.7          F:   2.3
Sum Cations:   449.9  Sum Anions:   388.2  Cations/Anions: 1.16   Tot. P:   15.0
Tot. Al:     7.0    Ext. Al:   1.0     Fe:    30.0      Mn:     0.0     SiO2:  0.20

ID: 2C3-069   Name: SHISHEBOGAMA LAKE                 State: WI  Date: 07NOV84
Sample Type: SPC/NRC/          Latitude: 45-53'55"N    Longitude: 89-49'15"W
Elevation:  480   Surface Temp:  4.2  Stratified: MIXED     Site Depth:   12.2
Lake Area:     284 Watershed Area:    1230 WA/LA:      4.3 Hydro Type: DRAINAGE
Residence Time:  3.27  Secchi Depth:  2.4   Turbidity:   1.9      Color:    20
Closed pH: 7.74         Equil. pH: 8.39               ANC:  756.4        DOC:  4.20
Closed DIC:  8.87   Equil. DIC:  8.84    Meas. Cond:  86.3   Cal. Cond:   90.9
Ca:  532.4           Mg:  231.2        Na:    88.7       K:  16.1       NH4:   0.0
SO4:    60.0      HCO3:   699.6       Cl:    64.9       NO3:    1.1          F:   2.9
Sum Cations:   868.5  Sum Anions:   831.8  Cations/Anions: 1.04   Tot. P:   13.0
Tot. Al:    18.0    Ext. Al:   1.0     Fe:    20.0      Mn:    10.0     SiO2: 10.30
```

(continued)

TABLE 4-1 (continued)

```
ID: 2C3-070   Name: TROSTEL LAKE                        State: WI  Date: 06NOV84
Sample Type: SPC/NRC/           Latitude: 46-16'13"N    Longitude: 89-54'40"W
Elevation:  507   Surface Temp:  3.4  Stratified: MIXED      Site Depth:   3.7
Lake Area:        8 Watershed Area:       28 WA/LA:      3.5 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  2.9   Turbidity:   0.7      Color:    30
Closed pH: 6.36       Equil. pH: 6.99             ANC:    97.9         DOC:  7.00
Closed DIC:   1.90   Equil. DIC:   1.09    Meas. Cond:  17.1   Cal. Cond:  19.5
Ca:    96.8           Mg:    51.8        Na:    17.4         K:  12.8       NH4:   4.9
SO4:    52.9        HCO3:    89.5       Cl:     5.6       NO3:   0.0          F:   1.2
Sum Cations:   183.9  Sum Anions:   149.3  Cations/Anions: 1.23   Tot. P:   8.0
Tot. Al:    29.0    Ext. Al:    8.0     Fe:    60.0       Mn:    10.0    SiO2:  0.57

ID: 2D3-072   Name: CRUM LAKE                           State: MN  Date: 13OCT84
Sample Type: SPC/LTM/           Latitude: 47-51'50"N    Longitude: 93-18'37"W
Elevation:  415   Surface Temp: 13.8  Stratified: MIXED      Site Depth:   3.0
Lake Area:        6 Watershed Area:      140 WA/LA:     22.2 Hydro Type: SEEPAGE
Residence Time:    *   Secchi Depth:  3.0   Turbidity:   0.6      Color:    22
Closed pH: 6.17       Equil. pH: 6.99             ANC:    38.0         DOC:  6.00
Closed DIC:   0.68   Equil. DIC:   0.29    Meas. Cond:   8.1   Cal. Cond:   7.3
Ca:    26.4           Mg:    24.7        Na:     7.8         K:  16.9       NH4:   0.0
SO4:    12.1        HCO3:    28.2       Cl:     5.1       NO3:   0.0          F:   1.3
Sum Cations:    76.3  Sum Anions:    46.6  Cations/Anions: 1.64   Tot. P:  10.0
Tot. Al:     5.0    Ext. Al:    6.0     Fe:    20.0       Mn:    10.0    SiO2:  0.12

ID: 3A2-061   Name: RAVENEL(CULLASAJA)L.                State: NC  Date: 25NOV84
Sample Type: SPC/LTM/           Latitude: 35-05'07"N    Longitude: 83-09'40"W
Elevation: 1213   Surface Temp:  4.6  Stratified: MIXED      Site Depth:   3.6
Lake Area:        8 Watershed Area:      337 WA/LA:     41.1 Hydro Type: RESERVOIR
Residence Time:  0.05  Secchi Depth:  2.3   Turbidity:   1.8      Color:    50
Closed pH: 6.34       Equil. pH: 7.09             ANC:    70.0         DOC:  4.10
Closed DIC:   1.38   Equil. DIC:   0.45    Meas. Cond:  26.2   Cal. Cond:  26.5
Ca:    81.8           Mg:    51.8        Na:    54.8         K:  26.3       NH4:   0.3
SO4:    61.4        HCO3:    58.7       Cl:    85.5       NO3:   0.7          F:   0.6
Sum Cations:   215.3  Sum Anions:   206.9  Cations/Anions: 1.04   Tot. P:   8.0
Tot. Al:   132.0    Ext. Al:    7.0     Fe:   180.0       Mn:    70.0    SiO2:  3.93

ID: 3A2-062   Name: SANTEETLAH LAKE                     State: NC  Date: 20NOV84
Sample Type: SPC/LTM/           Latitude: 35-22'00"N    Longitude: 83-52'30"W
Elevation:  591   Surface Temp: 13.9  Stratified: STRONG     Site Depth:  45.7
Lake Area:     1035 Watershed Area:    44848 WA/LA:     43.3 Hydro Type: RESERVOIR
Residence Time:  0.63  Secchi Depth:  2.3   Turbidity:   1.2      Color:    25
Closed pH: 6.78       Equil. pH: 7.47             ANC:   138.8         DOC:  1.70
Closed DIC:   2.33   Equil. DIC:   1.64    Meas. Cond:  19.7   Cal. Cond:  21.5
Ca:    84.3           Mg:    37.0        Na:    41.8         K:  15.1       NH4:   5.4
SO4:    29.8        HCO3:   150.6       Cl:    20.9       NO3:   1.6          F:   1.1
Sum Cations:   183.7  Sum Anions:   204.0  Cations/Anions: 0.90   Tot. P:   3.0
Tot. Al:    31.0    Ext. Al:    1.0     Fe:    64.0       Mn:    56.0    SiO2:  4.99

ID: 3A2-063   Name: THUNDER LAKE                        State: NC  Date: 29NOV84
Sample Type: SPC/LTM/           Latitude: 35-07'50"N    Longitude: 82-39'55"W
Elevation:  896   Surface Temp:  7.3  Stratified: MIXED      Site Depth:   5.8
Lake Area:       20 Watershed Area:      150 WA/LA:      7.5 Hydro Type: RESERVOIR
Residence Time:  0.44  Secchi Depth:  1.5   Turbidity:   5.2      Color:    55
Closed pH: 5.90       Equil. pH: 6.39             ANC:    16.7         DOC:  3.20
Closed DIC:   0.66   Equil. DIC:   0.21    Meas. Cond:   7.8   Cal. Cond:   8.5
Ca:    14.5           Mg:     9.0        Na:    37.4         K:   7.2       NH4:   0.7
SO4:    32.3        HCO3:    11.4       Cl:    15.2       NO3:   0.8          F:   0.3
Sum Cations:    69.8  Sum Anions:    60.0  Cations/Anions: 1.16   Tot. P:   6.0
Tot. Al:   380.0    Ext. Al:    8.0     Fe:    30.0       Mn:    10.0    SiO2:  3.28
```

(continued)

TABLE 4-1 (continued)

```
ID: 3A2-064   Name: WINFIELD SCOTT LAKE              State: GA  Date: 26NOV84
Sample Type: SPC/LTM/          Latitude: 34-44'21"N   Longitude: 83-58'25"W
Elevation:  875   Surface Temp:  6.1  Stratified: MIXED     Site Depth:   4.6
Lake Area:       5 Watershed Area:    914 WA/LA:   169.3 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  3.0   Turbidity:   1.6     Color:   25
Closed pH: 7.04       Equil. pH: 7.41               ANC:  158.7        DOC:  1.10
Closed DIC:  2.14   Equil. DIC:  1.82    Meas. Cond:  23.0   Cal. Cond:  24.7
Ca:   92.3          Mg:   65.0       Na:   60.0        K:  21.2       NH4:   0.4
SO4:   21.2       HCO3:  139.2       Cl:   33.9      NO3:   8.6          F:   0.5
Sum Cations:  239.1  Sum Anions:  203.6  Cations/Anions: 1.17   Tot. P:   5.0
Tot. Al:   58.0    Ext. Al:   3.0    Fe:  100.0     Mn:   90.0    SiO2:  8.05

ID: 3A2-065   Name: PRICE LAKE                       State: NC  Date: 21NOV84
Sample Type: SPC/LTM/          Latitude: 36-08'15"N   Longitude: 81-44'00"W
Elevation: 1030   Surface Temp:  3.5  Stratified: MIXED     Site Depth:   3.0
Lake Area:      15 Watershed Area:   1215 WA/LA:    82.6 Hydro Type: DRAINAGE
Residence Time:  0.03  Secchi Depth:  1.6   Turbidity:   3.9     Color:   30
Closed pH: 6.79       Equil. pH: 7.31               ANC:  106.5        DOC:  1.50
Closed DIC:  1.69   Equil. DIC:  1.31    Meas. Cond:  18.5   Cal. Cond:  19.5
Ca:   77.8          Mg:   32.1       Na:   51.8        K:  11.5       NH4:   2.5
SO4:   31.4       HCO3:   91.4       Cl:   29.9      NO3:   8.3          F:   1.0
Sum Cations:  175.8  Sum Anions:  162.1  Cations/Anions: 1.08   Tot. P:   8.0
Tot. Al:  139.0    Ext. Al:   3.0    Fe:  120.0     Mn:    0.0    SiO2:  7.60

ID: 3A2-066   Name: MARS HILL LAKE                   State: NC  Date: 21NOV84
Sample Type: SPC/LTM/          Latitude: 35-56'40"N   Longitude: 82-29'40"W
Elevation: 1164   Surface Temp:  3.9  Stratified: MIXED     Site Depth:   6.7
Lake Area:       * Watershed Area:    275 WA/LA:       * Hydro Type: RESERVOIR
Residence Time:    *    Secchi Depth:  3.2   Turbidity:   0.6     Color:   30
Closed pH: 6.98       Equil. pH: 7.37               ANC:  120.5        DOC:  1.80
Closed DIC:  1.67   Equil. DIC:  1.31    Meas. Cond:  16.5   Cal. Cond:  19.8
Ca:   55.9          Mg:   36.2       Na:   49.2        K:  14.1       NH4:  40.6
SO4:   18.5       HCO3:  109.4       Cl:   18.1      NO3:   4.0          F:   0.9
Sum Cations:  196.1  Sum Anions:  151.0  Cations/Anions: 1.30   Tot. P:   7.0
Tot. Al:   42.0    Ext. Al:   2.0    Fe:    0.0     Mn:    0.0    SiO2:  9.86

ID: 3A3-101   Name: CHATUGE LAKE                     State: NC  Date: 20NOV84
Sample Type: SPC/LTM/          Latitude: 35-00'45"N   Longitude: 83-47'15"W
Elevation:  587   Surface Temp: 14.4  Stratified: MIXED     Site Depth:  28.9
Lake Area:    2862 Watershed Area:  48687 WA/LA:    17.0 Hydro Type: RESERVOIR
Residence Time:  0.97  Secchi Depth:  1.9   Turbidity:   2.9     Color:   10
Closed pH: 6.91       Equil. pH: 7.45               ANC:  135.8        DOC:  1.00
Closed DIC:  2.04   Equil. DIC:  1.74    Meas. Cond:  19.4   Cal. Cond:  21.6
Ca:   63.9          Mg:   49.4       Na:   50.5        K:  27.1       NH4:   4.0
SO4:   24.8       HCO3:  136.6       Cl:   27.4      NO3:   1.3          F:   1.2
Sum Cations:  194.9  Sum Anions:  191.4  Cations/Anions: 1.02   Tot. P:   2.0
Tot. Al:  118.0    Ext. Al:   2.0    Fe:    0.0     Mn:    5.0    SiO2:  4.36

ID: 3A3-102   Name: MILLER LAKE                      State: TN  Date: 21NOV84
Sample Type: SPC/LTM/          Latitude: 36-10'42"N   Longitude: 82-09'23"W
Elevation: 1103   Surface Temp:  5.1  Stratified: MIXED     Site Depth:   5.5
Lake Area:       3 Watershed Area:    109 WA/LA:    36.3 Hydro Type: RESERVOIR
Residence Time:  0.13  Secchi Depth:  1.8   Turbidity:   3.4     Color:   40
Closed pH: 6.87       Equil. pH: 7.63               ANC:  218.6        DOC:  3.70
Closed DIC:  3.52   Equil. DIC:  2.83    Meas. Cond:  27.4   Cal. Cond:  27.3
Ca:  138.2          Mg:   33.7       Na:   69.6        K:  15.9       NH4:   5.9
SO4:   24.2       HCO3:  193.8       Cl:   18.3      NO3:   0.7          F:   2.3
Sum Cations:  263.4  Sum Anions:  239.4  Cations/Anions: 1.10   Tot. P:  11.0
Tot. Al:   43.0    Ext. Al:   1.0    Fe:  180.0     Mn:    0.0    SiO2:  6.94
```

(continued)

TABLE 4-1 (continued)

```
ID: 3A3-103   Name: WATAUGA LAKE                         State: TN  Date: 29NOV84
Sample Type: SPC/LTM/           Latitude: 36-19'40"N   Longitude: 82-05'00"W
Elevation:  597   Surface Temp: 11.2  Stratified: WEAK       Site Depth:  60.0
Lake Area:   2535 Watershed Area: 120474 WA/LA:    47.5 Hydro Type: RESERVOIR
Residence Time:  1.48  Secchi Depth:  2.9  Turbidity:   3.2      Color:   15
Closed pH: 7.25       Equil. pH: 8.02            ANC:  498.9          DOC:  1.20
Closed DIC:  6.58  Equil. DIC:  7.09   Meas. Cond:  75.8  Cal. Cond:  77.5
Ca:  286.9         Mg:  244.3       Na:   97.0        K:  34.5       NH4:  0.7
SO4:  110.6      HCO3:  513.3      Cl:   72.8      NO3:  34.8         F:  3.5
Sum Cations:  663.5  Sum Anions:  736.8  Cations/Anions: 0.90  Tot. P:   2.0
Tot. Al:   48.0    Ext. Al:    3.0    Fe:    30.0     Mn:     0.0   SiO2:  5.12

ID: 3A3-104   Name: WOLF CREEK RESERVOIR                 State: NC  Date: 25NOV84
Sample Type: SPC/LTM/           Latitude: 35-16'05"N   Longitude: 82-58'10"W
Elevation: 1082   Surface Temp: 11.8  Stratified: MIXED      Site Depth:  29.0
Lake Area:      2 Watershed Area:   1404 WA/LA:   702.0 Hydro Type: RESERVOIR
Residence Time:  0.02  Secchi Depth:  4.4  Turbidity:   1.5      Color:   18
Closed pH: 6.66       Equil. pH: 7.28            ANC:   86.1          DOC:  0.70
Closed DIC:  1.42  Equil. DIC:  1.25   Meas. Cond:  11.8  Cal. Cond:  12.8
Ca:   35.4         Mg:   23.0       Na:   42.6        K:  13.4       NH4:  1.3
SO4:   16.1      HCO3:   82.5      Cl:   14.8      NO3:   0.6         F:  0.6
Sum Cations:  115.9  Sum Anions:  114.7  Cations/Anions: 1.01  Tot. P:   5.5
Tot. Al:   34.5    Ext. Al:    1.0    Fe:    20.0     Mn:    85.0   SiO2:  7.46

ID: 3B1-141   Name: MAGNOLIA LAKE                        State: FL  Date: 11DEC84
Sample Type: SPC/DER/           Latitude: 29-49'28"N   Longitude: 82-01'07"W
Elevation:   37   Surface Temp: 16.0  Stratified: MIXED      Site Depth:  11.0
Lake Area:     81 Watershed Area:   3294 WA/LA:    40.5 Hydro Type: DRAINAGE
Residence Time:  0.45  Secchi Depth:  4.4  Turbidity:   0.7      Color:   10
Closed pH: 5.14       Equil. pH: 5.08            ANC:  -15.2          DOC:  1.13
Closed DIC:  0.36  Equil. DIC:  0.20   Meas. Cond:  25.5  Cal. Cond:  26.9
Ca:   26.7         Mg:   41.2       Na:  107.4        K:   3.4       NH4:  0.2
SO4:   62.7      HCO3:    0.8      Cl:  123.8      NO3:   0.0         F:  0.5
Sum Cations:  187.5  Sum Anions:  187.8  Cations/Anions: 1.00  Tot. P:   4.0
Tot. Al:   26.0    Ext. Al:    0.0    Fe:     5.0     Mn:     9.0   SiO2:  1.06

ID: 3B1-142   Name: SAND HILL (LOWRY) LA                 State: FL  Date: 13DEC84
Sample Type: SPC/DER/           Latitude: 29-50'54"N   Longitude: 82-00'29"W
Elevation:   38   Surface Temp: 15.2  Stratified: MIXED      Site Depth:   7.3
Lake Area:    508 Watershed Area:   2732 WA/LA:     5.4 Hydro Type: DRAINAGE
Residence Time:  1.46  Secchi Depth:  3.7  Turbidity:   1.0      Color:   10
Closed pH: 5.17       Equil. pH: 5.08            ANC:  -14.7          DOC:  0.53
Closed DIC:  0.26  Equil. DIC:  0.25   Meas. Cond:  25.3  Cal. Cond:  26.9
Ca:   26.5         Mg:   42.4       Na:  106.7        K:   3.5       NH4:  0.0
SO4:   67.2      HCO3:    0.9      Cl:  119.9      NO3:   0.2         F:  0.5
Sum Cations:  187.2  Sum Anions:  188.6  Cations/Anions: 0.99  Tot. P:   2.0
Tot. Al:   64.0    Ext. Al:    7.0    Fe:     4.0     Mn:    12.0   SiO2:  2.64

ID: 3B1-143   Name: WILDCAT LAKE                         State: FL  Date: 09DEC84
Sample Type: SPC/DER/           Latitude: 29-09'54"N   Longitude: 81-37'45"W
Elevation:   13   Surface Temp: 16.1  Stratified: MIXED      Site Depth:   5.5
Lake Area:    133 Watershed Area:    435 WA/LA:     3.3 Hydro Type: CLOSED
Residence Time:   *    Secchi Depth:  3.7  Turbidity:   0.5      Color:   10
Closed pH: 5.04       Equil. pH: 5.08            ANC:  -19.3          DOC:  1.70
Closed DIC:  0.34  Equil. DIC:  0.16   Meas. Cond:  37.9  Cal. Cond:  37.8
Ca:   36.1         Mg:   54.1       Na:  179.2        K:   3.7       NH4:  1.0
SO4:   71.5      HCO3:    0.7      Cl:  182.5      NO3:   0.1         F:  0.8
Sum Cations:  284.6  Sum Anions:  255.7  Cations/Anions: 1.11  Tot. P:   4.5
Tot. Al:   39.0    Ext. Al:   15.0    Fe:    12.5     Mn:     9.0   SiO2:  0.06
```

(continued)

TABLE 4-1 (continued)

```
ID: 3B1-144   Name: TOMAHAWK LAKE                        State: FL  Date: 10DEC84
Sample Type: SPC/DER/            Latitude: 29-07'58"N    Longitude: 81-54'25"W
Elevation:    19   Surface Temp: 16.8  Stratified: MIXED      Site Depth:    5.5
Lake Area:      28 Watershed Area:      88 WA/LA:       3.1 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  5.0   Turbidity:   0.5      Color:      5
Closed pH: 5.11        Equil. pH: 5.11              ANC:   -14.5        DOC:  1.96
Closed DIC:  0.57   Equil. DIC:  0.17     Meas. Cond:   33.2   Cal. Cond:   33.2
Ca:   28.0          Mg:    48.6       Na:   155.7          K:    4.4      NH4:   0.9
SO4:    84.7       HCO3:    0.8      Cl:   143.9        NO3:    0.4        F:   0.8
Sum Cations:  246.0  Sum Anions:  230.5  Cations/Anions: 1.07   Tot. P:    3.0
Tot. Al:    46.0    Ext. Al:  16.0     Fe:     3.0       Mn:    12.0    SiO2:  0.12

ID: 3B3-182   Name: OCEAN POND                           State: FL  Date: 13DEC84
Sample Type: SPC/DER/            Latitude: 30-13'45"N    Longitude: 82-26'15"W
Elevation:    47   Surface Temp: 14.2  Stratified: MIXED      Site Depth:    2.7
Lake Area:     723 Watershed Area:    5541 WA/LA:       7.7 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  1.5   Turbidity:   2.8      Color:     70
Closed pH: 5.07        Equil. pH: 5.04              ANC:   -11.6        DOC:  6.75
Closed DIC:  0.41   Equil. DIC:  0.31     Meas. Cond:   30.2   Cal. Cond:   30.3
Ca:    46.6         Mg:    44.3       Na:   127.7          K:    3.6      NH4:   0.7
SO4:    51.4       HCO3:    0.9      Cl:   141.6        NO3:    0.4        F:   1.1
Sum Cations:  232.6  Sum Anions:  195.3  Cations/Anions: 1.19   Tot. P:   15.0
Tot. Al:  200.0    Ext. Al:  64.0     Fe:   228.0       Mn:    24.0    SiO2:  2.53

ID: 3B3-183   Name: CHERRY LAKE                          State: FL  Date: 14DEC84
Sample Type: SPC/DER/            Latitude: 30-37'00"N    Longitude: 83-24'53"W
Elevation:    47   Surface Temp: 14.6  Stratified: MIXED      Site Depth:    3.0
Lake Area:     194 Watershed Area:     347 WA/LA:       1.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  2.5   Turbidity:   1.6      Color:     20
Closed pH: 7.01        Equil. pH: 6.52              ANC:   105.3        DOC:  2.25
Closed DIC:  0.24   Equil. DIC:  0.54     Meas. Cond:   46.3   Cal. Cond:   49.5
Ca:  134.0          Mg:    71.6       Na:   153.2          K:   15.3      NH4:   1.5
SO4:   187.8       HCO3:   37.9      Cl:   152.1        NO3:    5.6        F:   1.4
Sum Cations:  375.7  Sum Anions:  384.8  Cations/Anions: 0.98   Tot. P:   23.0
Tot. Al:    54.0    Ext. Al:   0.0     Fe:    27.0       Mn:    12.0    SiO2:  0.96

ID: 3B3-184   Name: CRYSTAL LAKE                         State: FL  Date: 14DEC84
Sample Type: SPC/DER/            Latitude: 30-27'14"N    Longitude: 85-42'08"W
Elevation:    18   Surface Temp: 16.4  Stratified: MIXED      Site Depth:   17.7
Lake Area:      73 Watershed Area:     355 WA/LA:       4.8 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  6.6   Turbidity:   0.4      Color:      5
Closed pH: 6.09        Equil. pH: 6.29              ANC:     0.9        DOC:  1.29
Closed DIC:  0.46   Equil. DIC:  0.33     Meas. Cond:   15.9   Cal. Cond:   15.7
Ca:    41.4         Mg:    23.0       Na:    55.9          K:    3.6      NH4:   1.6
SO4:    45.6       HCO3:   13.0      Cl:    57.0        NO3:    0.7        F:   0.4
Sum Cations:  126.0  Sum Anions:  116.6  Cations/Anions: 1.08   Tot. P:    6.0
Tot. Al:    13.0    Ext. Al:   0.0     Fe:     4.0       Mn:     3.0    SiO2:  1.03

ID: 3B3-185   Name: COMPASS LAKE                         State: FL  Date: 14DEC84
Sample Type: SPC/DER/            Latitude: 30-27'34"N    Longitude: 85-42'37"W
Elevation:    15   Surface Temp: 16.8  Stratified: MIXED      Site Depth:   16.2
Lake Area:      33 Watershed Area:     153 WA/LA:       4.6 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:  6.9   Turbidity:   0.3      Color:      5
Closed pH: 6.35        Equil. pH: 6.51              ANC:    15.7        DOC:  1.13
Closed DIC:  0.58   Equil. DIC:  0.42     Meas. Cond:   14.1   Cal. Cond:   13.5
Ca:    41.2         Mg:    21.8       Na:    48.9          K:    2.3      NH4:   1.0
SO4:    25.4       HCO3:   21.5      Cl:    52.9        NO3:    0.8        F:   0.3
Sum Cations:  115.4  Sum Anions:  100.9  Cations/Anions: 1.14   Tot. P:    2.0
Tot. Al:    16.0    Ext. Al:   0.0     Fe:     4.0       Mn:     3.0    SiO2:  2.83
```

(continued)

TABLE 4-1 (continued)

```
                                                      State: FL  Date: 05DEC84
ID: 3B3-186   Name: LAKE LUCERNE
Sample Type: SPC/DER/           Latitude: 28-04'46"N    Longitude: 81-41"03"W
Elevation:   39   Surface Temp: 21.2  Stratified: MIXED      Site Depth:   3.4
Lake Area:      17 Watershed Area:      67 WA/LA:      4.0 Hydro Type: SEEPAGE
Residence Time:    *    Secchi Depth:   2.8  Turbidity:    0.7      Color:   20
Closed pH: 6.91        Equil. pH: 7.22              ANC:  131.5       DOC:  3.98
Closed DIC:   1.44   Equil. DIC:   1.36    Meas. Cond: 169.0   Cal. Cond: 180.2
Ca:  376.1            Mg:   358.1        Na:   582.9        K:   91.8     NH4:  0.6
SO4:   699.6      HCO3:    85.7        Cl:   558.6       NO3:    0.0       F:  7.2
Sum Cations: 1409.6  Sum Anions: 1351.1  Cations/Anions: 1.04   Tot. P:   8.0
Tot. Al:   31.0   Ext. Al:    2.0    Fe:    1.0      Mn:     3.0    SiO2:  0.18
```

APPENDIX A

REGULAR LAKES SORTED BY STATE AND LAKE NAME

This Appendix (Table A-1) lists all regular lakes (those that were part of the probability sample), sorted by state and lake name.

The table includes: the name of the state in which the lake is located, the lake name as it appears on the appropriate USGS map, the lake ID, the latitude and longitude (in degrees-minutes-seconds), and the date the lake was sampled.

TABLE A-1. REGULAR LAKES SORTED BY STATE AND LAKE NAME

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
CONNECTICUT	(NO NAME)	1D1-015	42-01'30"N	72-08'15"W	13NOV84
	(NO NAME)	1D3-033	41-39'30"N	73-11'30"W	08NOV84
	ANDOVER LAKE	1D2-044	41-43'00"N	72-21'30"W	13NOV84
	BAILEY POND	1D1-020	41-38'15"N	71-47'30"W	04NOV84
	BISSONNETTE POND	1D1-017	41-55'25"N	72-13'05"W	13NOV84
	CEDAR POND	1D3-042	41-19'15"N	72-46'45"W	08NOV84
	FOSTERS POND	1D1-050	41-21'30"N	72-35'05"W	08NOV84
	GREAT POND	1D3-091	41-19'01"N	73-28'07"W	06NOV84
	GRIGGS POND	1D1-058	42-00'07"N	72-05'14"W	13NOV84
	HARTLAND POND	1D3-084	42-01'06"N	73-00'36"W	08NOV84
	INDIAN LAKE	1D3-092	41-15'03"N	73-00'40"W	06NOV84
	KILLINGLY POND	1D3-029	41-51'45"N	71-47'45"W	04NOV84
	LAKE FLOREN	1D3-083	41-45'25"N	73-14'33"W	08NOV84
	LAKE WINNEMAUG	1D3-036	41-35'00"N	73-07'45"W	08NOV84
	LANE POND	1D1-049	41-24'05"N	72-44'05"W	08NOV84
	LEANDER POND	1D3-056	41-50'15"N	72-11'18"W	13NOV84
	LONG POND	1D3-025	42-01'15"N	71-49'00"W	08NOV84
	MOREY POND	1D1-016	41-57'35"N	72-11'35"W	13NOV84
	PICKEREL LAKE	1D2-080	41-31'48"N	72-25'13"W	13NOV84
	QUINEBAUG POND	1D3-076	41-46'29"N	71-53'19"W	13NOV84
	RIGA LAKE	1B3-056	42-01'18"N	73-29'00"W	08NOV84
	SILVIAS POND	1D3-043	41-21'47"N	71-54'30"W	13NOV84
	TRANSYLVANIA POND	1D2-045	41-30'40"N	73-14'20"W	08NOV84
	WATABA LAKE	1D3-069	41-20'30"N	73-29'45"W	06NOV84
FLORIDA	(NO NAME)	3B1-007	28-29'22"N	81-35'24"W	09DEC84
	(NO NAME)	3B1-029	29-46'10"N	81-56'45"W	13DEC84
	(NO NAME)	3B1-033	29-37'17"N	81-54'38"W	10DEC84
	(NO NAME)	3B1-039	29-07'06"N	81-52'45"W	10DEC84
	(NO NAME)	3B1-052	28-38'19"N	81-52'39"W	08DEC84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA (cont)	(NO NAME)	3B1-054	29-47'24"N	81-57'34"W	13DEC84
	(NO NAME)	3B1-057	29-00'33"N	81-51'52"W	11DEC84
	(NO NAME)	3B1-058	28-59'56"N	81-52'35"W	09DEC84
	(NO NAME)	3B1-059	28-29'04"N	81-34'15"W	08DEC84
	(NO NAME)	3B1-061	28-59'04"N	81-45'15"W	09DEC84
	(NO NAME)	3B1-065	28-57'30"N	81-38'48"W	09DEC84
	(NO NAME)	3B1-068	28-29'15"N	81-35'35"W	09DEC84
	(NO NAME)	3B1-083	28-58'35"N	81-51'48"W	09DEC84
	(NO NAME)	3B1-089	29-36'30"N	81-58'25"W	10DEC84
	(NO NAME)	3B1-098	30-29'32"N	85-48'40"W	14DEC84
	(NO NAME)	3B1-099	29-37'07"N	81-53'52"W	10DEC84
	(NO NAME)	3B1-105	29-09'46"N	81-36'57"W	09DEC84
	(NO NAME)	3B1-106	29-34'45"N	81-57'17"W	10DEC84
	(NO NAME)	3B1-116	28-56'28"N	81-40'15"W	09DEC84
	(NO NAME)	3B2-085	27-25'55"N	81-30'00"W	03DEC84
	(NO NAME)	3B3-001	30-33'18"N	84-21'17"W	14DEC84
	(NO NAME)	3B3-054	28-47'11"N	81-31'27"W	09DEC84
	(NO NAME)	3B3-060	29-19'55"N	82-28'05"W	11DEC84
	(NO NAME)	3B3-082	29-27'33"N	81-31'54"W	11DEC84
	(NO NAME)	3B3-109	28-48'19"N	82-17'07"W	10DEC84
	(NO NAME)	3B3-148	28-15'51"N	81-35'43"W	05DEC84
	(NO NAME)	3B3-157	28-17'03"N	82-19'07"W	10DEC84
	(NO NAME)	3B3-169	28-26'10"N	82-23'15"W	10DEC84
	BASKET LAKE	3B2-024	27-31'43"N	81-26'38"W	05DEC84
	BIG LAKE	3B1-050	28-52'07"N	81-27'52"W	08DEC84
	BIRD POND	3B3-089	29-11'48"N	82-20'18"W	10DEC84
	BLACK LAKE	3B1-113	30-31'48"N	85-45'14"W	14DEC84
	BLUE LAKE	3B2-080	27-26'06"N	81-30'45"W	03DEC84
	BLUE POND	3B1-090	29-52'30"N	82-01'30"W	11DEC84
	BOGGY MARSH	3B1-087	28-23'15"N	81-42'02"W	08DEC84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA (cont)	BONNET LAKE	3B2-023	27-32'38"N	81-26'28"W	05DEC84
	BULLOCK LAKE	3B1-067	28-18'10"N	81-10'25"W	05DEC84
	CENTER LAKE NELLIE	3B2-091	27-21'08"N	81-22'45"W	04DEC84
	CHIPCO LAKE	3B1-032	29-37'42"N	81-53'31"W	11DEC84
	CLEAR LAKE	3B1-097	29-10'42"N	81-52'06"W	10DEC84
	CLEAR LAKE	3B3-173	28-21'45"N	82-28'45"W	11DEC84
	COOK LAKE	3B1-088	28-35'27"N	81-48'30"W	08DEC84
	CROOKED LAKE	3B1-036	29-09'10"N	81-36'10"W	09DEC84
	DEER LAKE	3B2-096	27-36'34"N	81-28'30"W	05DEC84
	DINNER LAKE	3B2-094	27-30'55"N	81-26'30"W	05DEC84
	GEORGES POND	3B3-071	29-32'02"N	82-18'42"W	11DEC84
	GOOSE LAKE	3B3-032	28-21'23"N	82-28'08"W	11DEC84
	GRASSY LAKE	3B2-056	27-15'00"N	81-20'00"W	04DEC84
	GREEN POND	3B3-010	29-33'13"N	82-02'13"W	11DEC84
	HAMMOCK LAKE	3B3-068	29-45'52"N	83-01'07"W	13DEC84
	HAVEN WINQUIPIN	3B3-168	29-33'54"N	82-45'03"W	13DEC84
	HOG LAKE	3B2-101	27-31'47"N	81-31'05"W	05DEC84
	HOLLY LAKE	3B1-044	28-56'26"N	81-43'00"W	09DEC84
	HOLTS LAKE	3B3-024	28-41'11"N	81-33'23"W	09DEC84
	HOMESTEAD POND	3B1-064	30-31'17"N	85-42'15"W	14DEC84
	HUCKLEBERRY LAKE	3B2-025	27-27'08"N	81-27'50"W	03DEC84
	KEYSTONE LAKE	3B3-117	28-07'52"N	82-35'25"W	10DEC84
	LAKE ANGELO	3B2-020	27-35'09"N	81-28'00"W	05DEC84
	LAKE ANNIE	3B2-053	27-12'30"N	81-21'00"W	02DEC84
	LAKE ANOKA	3B2-106	27-34'50"N	81-30'45"W	05DEC84
	LAKE BINGHAM	3B3-110	28-44'22"N	81-18'37"W	08DEC84
	LAKE BLANCHE	3B1-008	28-28'48"N	81-31'00"W	08DEC84
	LAKE BRENTWOOD	3B2-015	27-37'17"N	81-30'43"W	05DEC84
	LAKE BYRD	3B2-074	27-37'15"N	81-31'05"W	05DEC84
	LAKE CARRIE	3B2-030	27-20'14"N	81-25'40"W	03DEC84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA (cont)	LAKE CHARLOTTE	3B2-027	27-26'00"N	81-27'00"W	03DEC84
	LAKE CREWS	3B2-088	27-17'45"N	81-26'10"W	03DEC84
	LAKE DAMON	3B2-062	27-38'00"N	81-30'35"W	04DEC84
	LAKE DENTON	3B2-063	27-33'20"N	81-29'21"W	05DEC84
	LAKE DOYLE	3B1-073	28-51'43"N	81-11'39"W	08DEC84
	LAKE EMMA	3B1-072	28-36'45"N	81-51'10"W	08DEC84
	LAKE FRANCIS	3B2-055	27-20'15"N	81-24'30"W	03DEC84
	LAKE GLENADA	3B2-019	27-33'48"N	81-30'22"W	05DEC84
	LAKE GLONA	3B1-079	28-28'57"N	81-47'22"W	08DEC84
	LAKE HELENE	3B3-052	29-10'24"N	81-48'13"W	05DEC84
	LAKE HENRY	3B2-072	27-19'22"N	81-23'00"W	03DEC84
	LAKE HIAWATHA	3B3-002	30-24'47"N	84-21'00"W	14DEC84
	LAKE HILL	3B2-061	27-21'00"N	81-26'20"W	03DEC84
	LAKE ISIS	3B2-111	27-36'45"N	81-30'40"W	05DEC84
	LAKE ISTOKPOGA	3B2-048	27-22'24"N	81-17'13"W	04DEC84
	LAKE JACKSON	3B2-092	27-29'15"N	81-27'30"W	03DEC84
	LAKE JEFFERY	3B3-136	30-12'32"N	82-41'30"W	13DEC84
	LAKE JOSEPHINE	3B2-029	27-23'36"N	81-26'26"W	04DEC84
	LAKE JUNE IN WINTER	3B2-035	27-18'17"N	81-24'03"W	03DEC84
	LAKE LELIA	3B2-065	27-34'25"N	81-30'15"W	05DEC84
	LAKE LETTA	3B2-021	27-33'38"N	81-27'45"W	05DEC84
	LAKE LOTELA	3B2-099	27-34'30"N	81-29'00"W	05DEC84
	LAKE LOU	3B3-013	29-13'57"N	81-51'17"W	10DEC84
	LAKE MARY	3B1-045	28-55'29"N	81-40'41"W	09DEC84
	LAKE PEARL	3B2-075	27-17'00"N	81-21'45"W	02DEC84
	LAKE PLACID	3B2-089	27-14'30"N	81-22'15"W	02DEC84
	LAKE PYTHIAS	3B2-014	27-38'09"N	81-29'50"W	04DEC84
	LAKE ROSA	3B1-069	29-42'42"N	82-00'27"W	11DEC84
	LAKE RUTH	3B2-113	27-25'45"N	81-27'30"W	03DEC84
	LAKE SEBRING	3B2-022	27-31'41"N	81-29'03"W	05DEC84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA (cont)	LAKE SHERWOOD	3B3-029	28-32'59"N	81-29'57"W	08DEC84
	LAKE SIMMONS	3B2-105	27-20'18"N	81-22'33"W	04DEC84
	LAKE SIRENA	3B2-036	27-17'04"N	81-22'10"W	03DEC84
	LAKE STANDISH	3B3-074	28-42'02"N	81-33'08"W	09DEC84
	LAKE SUNSHINE	3B3-129	28-55'32"N	81-55'20"W	09DEC84
	LAKE THOMAS	3B3-162	28-08'47"N	82-29'15"W	10DEC84
	LAKE VIOLA	3B2-016	27-36'45"N	81-29'45"W	05DEC84
	LAKE WOODWARD	3B3-175	28-49'30"N	81-40'45"W	09DEC84
	LITTLE BONNET LAKE	3B2-090	27-33'35"N	81-28'35"W	05DEC84
	LITTLE FISH LAKE	3B1-091	28-24'05"N	81-30'47"W	08DEC84
	LITTLE RED WATER LAKE	3B2-081	27-32'30"N	81-28'30"W	05DEC84
	LOFTON PONDS (SOUTH)	3B3-133	30-21'12"N	84-22'55"W	14DEC84
	LONG POND	3B1-114	29-40'39"N	81-54'15"W	13DEC84
	MARINER LAKE	3B1-055	29-38'45"N	81-53'17"W	11DEC84
	MATTHIS LAKE	3B3-006	29-47'32"N	83-00'36"W	13DEC84
	MIRROR LAKE	3B2-037	27-16'31"N	81-21'38"W	04DEC84
	MOODY LAKE	3B3-116	28-24'28"N	82-17'45"W	10DEC84
	MOON LAKE	3B3-023	28-42'55"N	82-16'33"W	10DEC84
	MOORE LAKE	3B3-176	30-23'33"N	84-24'15"W	14DEC84
	NORTHWEST LAKE NELLIE	3B2-032	27-21'13"N	81-23'01"W	04DEC84
	OCHEESEE POND	3B1-132	30-39'52"N	84-58'15"W	14DEC84
	OPEN LAKE	3B1-022	30-29'10"N	85-42'40"W	14DEC84
	OSAGE LAKE	3B1-013	28-21'05"N	81-38'11"W	08DEC84
	PAYNE LAKE	3B1-130	30-33'25"N	85-39'55"W	14DEC84
	PECAN LAKE	3B1-041	29-02'12"N	81-53'38"W	10DEC84
	PERSIMMON LAKE	3B2-084	27-21'17"N	81-24'20"W	04DEC84
	PIONEER LAKE	3B2-067	27-37'20"N	81-29'40"W	04DEC84
	PRAIRIE LAKE	3B3-077	28-35'35"N	81-30'30"W	09DEC84
	RED BEACH LAKE	3B2-054	27-25'55"N	81-24'15"W	04DEC84
	RED WATER LAKE	3B2-031	27-20'50"N	81-23'45"W	04DEC84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA (cont)	REEDY LAKE	3B1-093	28-24'55"N	81-36'48"W	08DEC84
	ROUND LAKE	3B1-078	29-07'22"N	81-54'18"W	10DEC84
	SADDLEBAG LAKE	3B3-132	27-53'52"N	81-27'52"W	04DEC84
	SAXON LAKE	3B3-075	28-11'50"N	82-26'50"W	10DEC84
	SELLERS LAKE	3B1-077	29-06'43"N	81-38'15"W	09DEC84
	SILVER LAKE	3B2-107	27-33'58"N	81-31'25"W	05DEC84
	SOUTHEAST LAKE NELLIE	3B2-033	27-20'53"N	81-22'33"W	04DEC84
	SPARKLEBERRY LAKE	3B1-025	30-27'40"N	85-31'03"W	14DEC84
	SQUARE LAKE	3B1-010	28-25'31"N	81-42'03"W	08DEC84
	STEVENS LAKE	3B1-027	29-53'30"N	82-00'35"W	11DEC84
	TROUT LAKE	3B2-013	27-38'49"N	81-30'27"W	04DEC84
	TSALA APOPKA LAKE	3B3-017	28-55'58"N	82-22'25"W	10DEC84
	TURKEY PEN POND	3B1-140	30-33'21"N	85-17'12"W	14DEC84
	WILMA LAKE (EAST)	3B1-051	28-32'21"N	81-43'49"W	08DEC84
	WOLF LAKE	3B2-026	27-25'17"N	81-28'27"W	03DEC84
GEORGIA	(NO NAME)	3A2-015	34-47'13"N	84-23'58"W	24NOV84
	(NO NAME)	3A2-028	34-30'43"N	84-04'37"W	24NOV84
	(NO NAME)	3A3-017	34-17'27"N	84-04'53"W	26NOV84
	(NO NAME)	3A3-027	33-57'00"N	83-16'30"W	27NOV84
	(NO NAME)	3A3-038	33-41'50"N	82-41'50"W	27NOV84
	(NO NAME)	3A3-046	33-23'40"N	84-14'33"W	26NOV84
	(NO NAME)	3A3-061	33-29'45"N	84-13'33"W	26NOV84
	(NO NAME)	3A3-063	33-58'56"N	84-19'50"W	26NOV84
	(NO NAME)	3A3-064	34-04'08"N	83-31'15"W	27NOV84
	(NO NAME)	3A3-073	33-41'00"N	84-02'45"W	26NOV84
	(NO NAME)	3A3-086	33-59'14"N	83-40'50"W	27NOV84
	(NO NAME)	3A3-089	34-15'50"N	84-09'45"W	26NOV84
	(NO NAME)	3A3-099	34-11'47"N	84-18'54"W	26NOV84
	AIKEN POND	3A3-050	33-14'10"N	82-49'45"W	27NOV84
	BLUE RIDGE LAKE	3A2-056	34-51'45"N	84-16'00"W	20NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
GEORGIA (cont)	BUZZARD ROOST LAKE	3B2-010	30-40'05"N	82-12'25"W	13DEC84
	CARTERS LAKE	3A2-019	34-36'26"N	84-38'04"W	24NOV84
	CONASAUGA LAKE	3A2-014	34-51'35"N	84-39'04"W	24NOV84
	COWARD LAKE	3B2-087	30-39'27"N	82-10'12"W	13DEC84
	COX LAKE	3A2-027	34-25'34"N	84-17'53"W	24NOV84
	DOUBLE LAKES (SOUTH)	3B2-003	30-58'50"N	82-11'45"W	13DEC84
	DOUBLE LKS.(NORTH)	3B2-103	30-59'12"N	82-11'35"W	13DEC84
	DURDIN LAKE	3B2-005	30-53'13"N	82-08'50"W	13DEC84
	ELDER LAKE	3A3-026	34-00'00"N	83-48'10"W	27NOV84
	FAUSETT LAKE	3A2-057	34-31'48"N	84-16'45"W	24NOV84
	FREEMAN LAKE	3A3-068	33-55'10"N	84-08'37"W	26NOV84
	GAINES LAKE	3A3-036	33-43'00"N	84-03'15"W	26NOV84
	GANNET LAKE	3B2-093	30-39'40"N	82-14'40"W	13DEC84
	GRANDVIEW LAKE	3A2-058	34-30'06"N	84-23'50"W	24NOV84
	HALF MOON LAKE	3B2-006	30-52'27"N	82-08'43"W	13DEC84
	HARPS LAKE	3A3-052	33-37'05"N	84-11'24"W	26NOV84
	JOELS LAKE	3A3-035	33-41'30"N	84-08'15"W	26NOV84
	LAKE BURTON	3A2-017	34-49'38"N	83-33'18"W	24NOV84
	LAKE LOUISE	3A2-047	34-36'10"N	83-16'57"W	24NOV84
	LAKE RABUN	3A2-018	34-46'13"N	83-25'44"W	24NOV84
	LAKE SEAGRAVES	3A3-022	34-05'53"N	83-21'20"W	27NOV84
	LAKE SIDNEY LANIER	3A3-095	34-11'30"N	84-00'00"W	26NOV84
	LAKE SPIVEY	3A3-057	33-30'52"N	84-17'30"W	26NOV84
	LAKE TAMARACK	3A2-022	34-29'23"N	84-22'18"W	24NOV84
	LAWSON LAKE	3A3-014	34-37'37"N	83-25'45"W	24NOV84
	MAUL HAMMOCK LAKE	3B2-100	31-00'55"N	82-15'28"W	13DEC84
	NOTTELY LAKE	3A2-016	34-55'56"N	84-04'32"W	20NOV84
	OHIO LAKE	3B2-001	31-01'02"N	82-12'15"W	13DEC84
	ROCK EAGLE LAKE	3A3-045	33-25'00"N	83-23'40"W	27NOV84
	RUSSELL LAKE	3A2-049	34-29'23"N	83-29'49"W	24NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
GEORGIA (cont)	SCONTI LAKE	3A2-026	34-27'08"N	84-17'17"W	24NOV84
	SEAGROVE LAKE	3B2-011	30-42'33"N	82-10'18"W	13DEC84
	SEQUOYAH LAKE	3A2-023	34-32'41"N	84-22'04"W	24NOV84
	SHAMROCK LAKE	3A3-044	33-28'52"N	84-18'00"W	26NOV84
	STEWARTS LAKE	3A3-060	33-38'21"N	83-05'05"W	27NOV84
	TOCCOA RESERVOIR	3A2-046	34-36'50"N	83-21'34"W	24NOV84
	TWIN LAKES (EASTERN)	3A2-021	34-37'21"N	83-49'13"W	26NOV84
	TWIN LAKES (WESTERN)	3A2-020	34-37'18"N	83-49'29"W	26NOV84
	WALKER LAKE	3A3-078	33-39'52"N	84-02'30"W	26NOV84
	WINDER RESERVOIR	3A3-021	34-00'42"N	83-44'36"W	27NOV84
MAINE	(BIG) BERRY POND	1C1-010	45-30'20"N	70-02'15"W	19OCT84
	(NO NAME)	1E1-027	45-47'25"N	69-14'30"W	17OCT84
	(NO NAME)	1E1-087	43-45'00"N	70-40'40"W	29OCT84
	(NO NAME)	1E1-119	43-48'54"N	70-40'10"W	29OCT84
	(NO NAME)	1E1-120	45-27'26"N	68-50'46"W	19OCT84
	(NO NAME)	1E2-002	45-59'40"N	69-47'00"W	17OCT84
	(NO NAME)	1E2-003	45-57'15"N	70-04'05"W	17OCT84
	(NO NAME)	1E2-015	46-16'45"N	69-36'25"W	16OCT84
	(NO NAME)	1E2-021	46-07'45"N	68-35'10"W	16OCT84
	(NO NAME)	1E2-025	45-53'30"N	69-46'25"W	17OCT84
	(NO NAME)	1E2-069	46-07'27"N	68-46'45"W	16OCT84
	(NO NAME)	1E2-073	45-53'08"N	69-26'58"W	17OCT84
	ABBOTTS POND	1C2-010	44-25'45"N	70-31'00"W	24OCT84
	ALEWIFE POND	1E3-050	43-26'15"N	70-36'15"W	30OCT84
	BALD MOUNTAIN POND	1E3-036	45-15'00"N	69-44'00"W	19OCT84
	BEAL POND	1C2-007	44-54'14"N	70-24'30"W	18OCT84
	BEAN POND	1C1-078	45-07'38"N	69-58'41"W	19OCT84
	BEAN PONDS (MIDDLE)	1E1-025	45-48'45"N	69-11'30"W	17OCT84
	BEAR POND	1C3-032	44-09'15"N	70-43'00"W	25OCT84
	BEAVER POND	1C1-074	44-48'44"N	70-41'14"W	18OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	BELL POND	1E1-093	45-20'35"N	69-31'17"W	17OCT84
	BIG GRAPEVINE POND	1E1-045	45-18'45"N	69-15'30"W	19OCT84
	BIG HURD POND	1E2-017	46-10'00"N	69-40'00"W	17OCT84
	BLACK BROOK POND	1C3-074	45-24'09"N	69-53'52"W	19OCT84
	BLACK POND	1C2-012	44-08'45"N	70-48'00"W	25OCT84
	BLACK POND	1E1-004	45-44'45"N	69-16'45"W	17OCT84
	BRACEY POND	1E1-060	44-57'45"N	68-07'20"W	21OCT84
	BRANNS MILL POND	1E3-038	45-06'30"N	69-10'00"W	19OCT84
	BRETTUNS POND	1E2-054	44-23'30"N	70-15'00"W	24OCT84
	BURNHAM POND	1E3-035	45-32'30"N	69-43'00"W	17OCT84
	CAIN POND	1E3-062	44-29'32"N	68-58'03"W	23OCT84
	CARRY POND	1E3-071	46-20'43"N	68-35'45"W	15OCT84
	CASSIDY DEADWATER	1E2-057	45-58'38"N	69-37'34"W	17OCT84
	CLARKSON POND	1E2-014	46-25'20"N	69-28'00"W	16OCT84
	CLEAR POND	1C1-021	45-06'30"N	69-59'15"W	19OCT84
	CLIFFORD POND	1E1-105	45-50'06"N	69-05'37"W	17OCT84
	CLISH POND	1E3-065	46-01'09"N	70-15'30"W	17OCT84
	CRAIG POND	1E1-074	44-35'00"N	68-40'00"W	22OCT84
	CRANBERRY POND	1C1-023	44-51'30"N	70-56'55"W	18OCT84
	CRESCENT POND	1E2-058	46-25'34"N	69-36'35"W	16OCT84
	CRESENT (RATTLESNAKE) L.	1E1-084	43-58'30"N	70-27'30"W	29OCT84
	CROOKED BROOK LAKE	1E1-036	45-33'00"N	67-43'15"W	21OCT84
	CROOKED POND	1E1-103	45-21'10"N	68-26'35"W	21OCT84
	DAN CHARLES POND	1C2-065	44-10'53"N	70-49'35"W	25OCT84
	DECKER PONDS (EASTERN)	1C1-018	45-11'45"N	69-56'15"W	19OCT84
	DENNY POND	1E3-012	46-56'45"N	68-52'15"W	16OCT84
	DEPOT LAKE	1E3-014	46-46'30"N	69-49'45"W	16OCT84
	DOLBY POND (NORTHERN)	1E1-031	45-41'00"N	68-37'30"W	17OCT84
	DOUGHNUT POND	1E1-108	45-48'34"N	69-07'24"W	17OCT84
	DRURY POND	1C2-056	44-42'15"N	70-14'30"W	24OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	DUCK LAKE	1E1-054	45-09'00"N	68-06'00"W	21OCT84
	DUNDEE POND	1E2-055	43-47'18"N	70-27'17"W	29OCT84
	DYER LONG POND	1E1-083	44-11'00"N	69-31'30"W	23OCT84
	EBEEMEE LAKE	1E1-038	45-25'30"N	69-00'30"W	19OCT84
	EDDY POND	1C1-002	44-55'15"N	70-31'32"W	18OCT84
	ELM POND	1E2-011	46-01'30"N	69-48'30"W	17OCT84
	FAIRBANKS POND	1E2-007	44-23'21"N	69-49'52"W	24OCT84
	FIRST POND	1E1-123	44-22'10"N	68-36'00"W	22OCT84
	FISH RIVER LAKE	1E3-013	46-50'00"N	68-46'45"W	16OCT84
	FITTS POND	1E1-126	44-45'47"N	68-33'21"W	21OCT84
	FOREST POND	1E2-010	43-59'50"N	69-21'15"W	23OCT84
	FOURTH DAVIS POND	1E1-011	45-15'30"N	69-23'40"W	19OCT84
	FOURTH ROACH POND	1E1-006	45-38'30"N	69-15'00"W	19OCT84
	FROST POND	1E1-024	45-54'30"N	69-11'15"W	17OCT84
	FULTON LAKE	1E1-066	44-51'00"N	67-33'30"W	21OCT84
	GARDNER POND	1E1-023	46-04'28"N	68-39'54"W	16OCT84
	GEORGE POND	1E1-068	44-44'15"N	68-38'00"W	21OCT84
	GEORGES POND	1E1-073	44-37'00"N	68-14'30"W	23OCT84
	GETCHEL LAKES (NORTHERN)	1E1-056	45-08'00"N	67-52'40"W	21OCT84
	GLAZIER LAKE	1E3-006	47-13'40"N	69-00'00"W	15OCT84
	GRASS POND	1C1-016	45-18'30"N	70-05'30"W	19OCT84
	GRASSY POND(SPRINGY POND)	1E1-069	44-45'30"N	68-29'30"W	22OCT84
	GREAT POND	1E1-092	44-36'03"N	68-17'00"W	22OCT84
	GREEN POND	1E2-019	46-09'00"N	68-24'15"W	15OCT84
	GREENWOOD POND	1E1-106	45-32'07"N	69-13'58"W	17OCT84
	GROSS POND	1E2-049	44-03'30"N	69-23'35"W	23OCT84
	HALFMILE POND	1E1-128	44-50'59"N	68-25'47"W	21OCT84
	HANCOCK POND	1C2-064	44-57'20"N	69-59'10"W	18OCT84
	HANSEN POND	1C3-034	43-35'45"N	70-54'30"W	29OCT84
	HEDGEHOG POND	1E1-116	45-28'45"N	69-24'45"W	19OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	HOBART BOG	1E1-118	44-51'02"N	67-15'22"W	21OCT84
	HOPKINS POND	1E1-012	44-47'30"N	68-27'15"W	21OCT84
	HORSESHOE POND	1C1-028	44-35'27"N	70-40'00"W	24OCT84
	HORSESHOE POND	1C3-007	45-27'30"N	69-56'00"W	19OCT84
	HUNT POND	1C1-031	44-05'00"N	71-00'00"W	25OCT84
	HUTCHINSON POND	1E2-053	44-15'52"N	69-52'21"W	24OCT84
	IRON POND	1C2-002	45-27'30"N	70-22'30"W	19OCT84
	JESSIE POND	1C2-009	44-44'52"N	70-15'04"W	24OCT84
	JIMMIES POND	1E1-091	44-58'04"N	68-09'38"W	21OCT84
	JOE POND	1E2-067	44-24'26"N	69-49'25"W	24OCT84
	JOSH POND	1E1-089	44-46'45"N	67-18'30"W	21OCT84
	JOYS POND	1E2-051	44-13'20"N	69-40-02"W	24OCT84
	KALERS POND	1E2-063	44-06'29"N	69-25'22"W	23OCT84
	KEG LAKE	1E1-047	45-19'30"N	68-03'15"W	21OCT84
	KENNEBUNK POND	1E1-088	43-30'15"N	70-39'00"W	30OCT84
	LILY BOG	1E2-061	45-03'25"N	69-31'58"W	19OCT84
	LILY PAD POND	1E1-018	45-52'35"N	69-02'30"W	16OCT84
	LILY POND	1E1-117	43-58'57"N	70-19'02"W	29OCT84
	LITTLE DIMMICK POND	1C1-019	45-13'45"N	69-52'30"W	19OCT84
	LITTLE FISH POND	1C3-005	45-32'48"N	70-28'37"W	18OCT84
	LITTLE HATCASE POND	1E1-071	44-42'10"N	68-31'30"W	21OCT84
	LITTLE INDIAN POND	1E3-024	46-15'41"N	69-14'21"W	16OCT84
	LITTLE JIM POND	1C1-015	45-17'00"N	70-27'30"W	18OCT84
	LITTLE LEADBETTER POND	1E3-027	46-14'45"N	69-11'45"W	16OCT84
	LITTLE MEDOMAK LAKE	1E2-048	44-11'25"N	69-20'30"W	23OCT84
	LITTLE POND	1C2-069	43-57'40"N	70-48'52"W	25OCT84
	LITTLE POND	1E1-122	44-23'34"N	69-19'14"W	23OCT84
	LITTLE POND	1E3-046	44-23'15"N	69-11'50"W	23OCT84
	LITTLE ROUND POND	1E1-046	45-18'48"N	68-26'55"W	21OCT84
	LITTLE SEAVEY LAKE	1E1-061	44-56'15"N	67-38'00"W	21OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	LONG LAKE	1E3-030	46-06'40"N	68-07'30"W	15OCT84
	LONG POND	1E1-062	44-55'00"N	68-16'11"W	21OCT84
	LONG POND	1E1-101	44-02'15"N	68-36'40"W	23OCT84
	LONG POND	1E1-111	44-32'02"N	68-10'13"W	23OCT84
	LONGFELLOW LAKE	1E3-069	45-45'58"N	67-51'07"W	21OCT84
	LOST POND	1E2-004	46-13'00"N	69-20'50"W	16OCT84
	LOWER HADLOCK POND	1E1-124	44-18'36"N	68-17'26"W	22OCT84
	LOWER JO-MARY LAKE	1E1-030	45-41'00"N	69-00'00"W	17OCT84
	LOWER OXBROOK LAKE	1E1-050	45-17'00"N	67-50'30"W	21OCT84
	LOWER SABAGO LAKE	1E1-058	45-00'00"N	68-01'30"W	21OCT84
	LT.GREENWOOD POND (WEST)	1E1-040	45-22'00"N	69-24'30"W	17OCT84
	LUFKIN POND	1C1-088	44-50'25"N	70-27'46"W	18OCT84
	MCCLURE POND	1E3-045	44-29'00"N	68-57'50"W	23OCT84
	MCLEAN LAKE	1E3-070	47-06'25"N	68-52'15"W	15OCT84
	MEADOW POND	1E1-078	44-21'25"N	68-54'00"W	23OCT84
	MIDDLE CHAIN LAKE	1E1-096	45-13'11"N	68-04'45"W	21OCT84
	MILLINOCKET LAKE	1E1-028	45-45'00"N	68-47'00"W	17OCT84
	MILLINOCKET LAKE	1E3-060	46-18'10"N	68-52'30"W	15OCT84
	MOODY POND	1E3-048	44-17'35"N	69-08'45"W	23OCT84
	MOOSE POND	1E2-037	44-28'30"N	69-58'00"W	24OCT84
	MORRELL POND	1E3-072	46-12'54"N	68-48'13"W	16OCT84
	MOSHER POND	1E3-044	44-28'30"N	70-06'30"W	24OCT84
	MOUNTAIN POND	1E3-018	46-33'30"N	69-00'40"W	15OCT84
	MUD POND	1C2-011	44-17'30"N	70-39'00"W	25OCT84
	MUD POND	1C3-006	45-31'20"N	70-40'49"W	18OCT84
	NELSON POND	1E2-038	44-24'55"N	70-15'45"W	24OCT84
	NOKOMIS POND	1E3-040	44-52'15"N	69-18'00"W	19OCT84
	NORTH POND	1C1-029	44-24'15"N	70-40'30"W	25OCT84
	NORTHEAST POND	1E2-039	44-20'30"N	70-21'15"W	24OCT84
	NORTHWEST POND	1C2-018	43-34'45"N	70-47'45"W	29OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	NUMBER NINE LAKE	1E3-022	46-25'00"N	68-03'00"W	15OCT84
	OLAMON POND	1E1-057	45-01'40"N	68-23'40"W	21OCT84
	ORANGE LAKE	1E1-090	44-46'10"N	67-15'00"W	21OCT84
	OTTER POND	1E1-055	45-05'52"N	69-41'35"W	19OCT84
	OTTER POND	1E3-002	46-22'28"N	68-21'30"W	15OCT84
	PALMER POND	1E1-053	45-10'00"N	69-43'50"W	19OCT84
	PARKER POND	1E1-077	44-22'20"N	68-42'30"W	22OCT84
	PEABODY POND	1E2-056	43-56'32"N	70-41'13"W	25OCT84
	PEAKED MOUNTAIN POND	1E1-102	46-00'43"N	68-38'10"W	16OCT84
	PEEP LAKE	1E1-009	44-54'30"N	67-53'30"W	21OCT84
	PLEASANT LAKE	1E2-029	45-04'00"N	67-29'00"W	21OCT84
	PLEASANT LAKE	1E3-031	46-01'30"N	68-10'00"W	15OCT84
	POLAND POND	1E2-062	46-15'35"N	69-35'30"W	16OCT84
	POSSUM LAKE	1E1-059	45-01'00"N	67-41'45"W	21OCT84
	QUIMBY POND	1C2-068	44-59'27"N	70-44'31"W	18OCT84
	RAYMOND POND	1E1-015	43-58'00"N	70-25'45"W	30OCT84
	RICH MILL POND	1E2-046	43-47'30"N	70-34'30"W	29OCT84
	RICHARDSON POND	1C2-005	44-55'30"N	70-55'00"W	18OCT84
	ROBERTS POND	1E3-033	46-03'30"N	70-16'05"W	17OCT84
	ROBINSON POND	1E2-023	46-01'45"N	69-57'30"W	17OCT84
	ROCKY LAKE	1E1-100	44-51'46"N	67-27'30"W	21OCT84
	RODERIQUE POND	1C3-003	45-39'15"N	69-55'40"W	17OCT84
	ROSS POND	1E2-071	43-55'20"N	69-29'40"W	23OCT84
	ROUND LAKE	1E2-030	45-01'00"N	67-16'00"W	21OCT84
	ROUND POND	1E2-016	46-14'30"N	69-33'45"W	16OCT84
	ROUND POND	1E2-047	44-12'15"N	69-17'30"W	23OCT84
	ROUND POND	1E3-015	46-46'00"N	69-16'00"W	16OCT84
	ROUND POND	1E3-041	44-44'20"N	69-13'30"W	24OCT84
	SAFFORD POND	1C1-022	45-00'00"N	70-06'30"W	18OCT84
	SALMON STREAM LAKE	1E1-029	45-43'30"N	68-29'09"W	17OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	SAND POND	1E3-042	44-34'10"N	70-07'10"W	24OCT84
	SANDY RIVER PONDS (MID)	1C1-008	44-53'50"N	70-33'30"W	18OCT84
	SCHOODIC LAKE	1E1-072	44-41'45"N	67-53'30"W	22OCT84
	SEAVEY LAKE	1E1-063	44-54'20"N	67-37'30"W	21OCT84
	SEBAGO LAKE	1E2-045	43-50'00"N	70-30'00"W	29OCT84
	SECOND CHAIN LAKE	1E1-022	45-00'00"N	67-44'00"W	21OCT84
	SECOND CURRIER POND	1E3-057	46-24'55"N	69-06'31"W	16OCT84
	SECOND DEBSCONEAG LAKE	1E1-020	45-46'45"N	69-02'30"W	17OCT84
	SECOND MUSQUACOOK LAKE	1E2-012	46-38'00"N	69-10'30"W	16OCT84
	SEWELL POND	1E1-086	43-52'15"N	69-46'52"W	23OCT84
	SHIRLEY POND	1E1-109	45-22'06"N	69-37'17"W	19OCT84
	SIX PONDS	1E1-010	46-00'30"N	68-55'30"W	16OCT84
	SMITH POND	1E1-129	45-03'44"N	69-42'43"W	19OCT84
	SOPER POND	1E3-056	46-22'28"N	69-13'47"W	16OCT84
	SOUTH POND	1C1-003	44-52'00"N	70-33'30"W	18OCT84
	SOUTH POND	1E1-044	45-20'30"N	69-27'25"W	17OCT84
	SPAULDING LAKE	1E3-068	46-06'24"N	68-06'15"W	15OCT84
	SPECTACLE POND	1C1-013	45-20'00"N	70-27'30"W	18OCT84
	SPECTACLE POND	1E1-067	44-45'00"N	68-13'00"W	22OCT84
	SPRING LAKE	1E1-052	45-13'00"N	68-13'00"W	21OCT84
	SPRING POND	1E3-025	46-18'15"N	69-02'45"W	16OCT84
	ST. FROID LAKE	1E3-011	46-57'00"N	68-37'00"W	16OCT84
	STEARNS POND	1C3-060	44-07'20"N	70-46'38"W	25OCT84
	STEVENS POND	1E1-082	44-22'00"N	69-18'00"W	23OCT84
	SUGAR BERTH POND	1C3-004	45-38'30"N	70-21'00"W	19OCT84
	SUMMIT POND	1E2-052	46-01'40"N	69-52'50"W	17OCT84
	TARBOX POND	1E2-070	46-11'42"N	69-31'50"W	16OCT84
	TARKILL POND	1E2-065	43-50'36"N	70-25'58"W	29OCT84
	TEN THOUSAND ACRE POND	1C1-011	45-30'20"N	69-57'30"W	19OCT84
	THOMPSON LAKE	1E2-043	44-06'00"N	70-30'00"W	25OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	.Longitude	Date sampled
MAINE	THREE MILE POND	1E3-052	44-22'02"N	69-36'16"W	23OCT84
(cont)	THURSTON POND	1E1-070	44-40'00"N	68-43'30"W	23OCT84
	TOBEY POND	1C1-077	45-26'42"N	69-59'10"W	19OCT84
	TOGUE POND	1E3-055	46-56'02"N	68-53'31"W	16OCT84
	TOM YOUNG POND	1E3-067	45-45'44"N	69-35'28"W	19OCT84
	TOMHEGAN POND	1E2-027	45-48'00"N	69-53'30"W	17OCT84
	TORREY POND	1E1-014	44-14'35"N	68-39'00"W	22OCT84
	TRAFTON POND	1C2-016	43-50'45"N	70-53'30"W	25OCT84
	TRIPP POND	1E2-044	44-03'00"N	70-26'00"W	25OCT84
	TROUT POND	1E1-034	45-28'35"N	69-23'30"W	19OCT84
	UNKNOWN POND	1C3-069	45-36'15"N	70-38'04"W	18OCT84
	UP. COLD STREAM PONDS (E)	1E1-113	45-18'13"N	68-27'02"W	21OCT84
	UPPER HADLOCK POND	1E1-079	44-19'20"N	68-17'15"W	22OCT84
	UPPER OXHEAD POND	1E1-097	45-04'55"N	68-15'16"W	21OCT84
	UPPER PIERCE POND	1C1-075	45-18'05"N	70-06'09"W	19OCT84
	WARREN POND	1C3-067	43-13'37"N	70-43'40"W	30OCT84
	WEBSTER LAKE	1E2-018	46-09'30"N	69-05'00"W	16OCT84
	WEED POND	1E1-017	46-02'00"N	68-52'30"W	16OCT84
	WELHERN POND	1C1-017	45-12'45"N	70-29'40"W	18OCT84
	WEST POND	1C2-060	43-45'15"N	70-52'30"W	29OCT84
	WESTERN LAKE	1E2-059	45-04'20"N	67-10'22"W	21OCT84
	WEYMOUTH POND	1E3-039	44-58'15"N	69-19'30"W	19OCT84
	WHEELOCK LAKE	1E3-007	47-12'00"N	68-43'00"W	15OCT84
	WHETSTONE POND	1E1-051	45-13'00"N	69-33'30"W	19OCT84
	WIGHT POND	1E1-076	44-28'15"N	68-40'30"W	22OCT84
	WILEY POND	1E2-060	46-00'04"N	68-32'26"W	16OCT84
	WILSON HILL POND	1C1-012	45-25'58"N	69-58'12"W	19OCT84
MASSACHUSETTS	(NO NAME)	1C3-062	42-36'50"N	71-38'18"W	01NOV84
	(NO NAME)	1D1-011	42-03'00"N	73-13'15"W	08NOV84
	(NO NAME)	1D1-029	41-54'15"N	70-51'30"W	06NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MASSACHUSETTS (cont)	(NO NAME)	1D2-091	42-00'04"N	70-53'35"W	13NOV84
	(NO NAME)	1D3-015	42-12'20"N	70-58'35"W	04NOV84
	ALTHEA LAKE	1C3-048	42-40'10"N	71-22'50"W	31OCT84
	AMES POND	1D2-006	42-29'52"N	72-25'09"W	03NOV84
	ASHLAND RESERVOIR	1D2-093	42-14'22"N	71-27'52"W	08NOV84
	ASHLEY POND	1D3-016	42-10'00"N	72-40'00"W	08NOV84
	BENEDICT POND	1D2-013	42-12'15"N	73-17'15"W	07NOV84
	BERKSHIRE POND	1C3-020	42-30'15"N	73-11'50"W	07NOV84
	BIG STATION POND	1D2-055	41-32'56"N	70-00'23"W	06NOV84
	BOOMS POND	1D2-003	42-24'12"N	71-30'08"W	04NOV84
	BORDEN BROOK RESERVOIR	1D1-055	42-07'47"N	72-56'45"W	08NOV84
	CAHOON POND	1D2-078	41-43'32"N	70-02'07"W	06NOV84
	CHARGE POND	1D1-036	41-49'00"N	70-40'30"W	07NOV84
	CHEBACCO LAKE	1D3-063	42-36'47"N	70-48'30"W	31OCT84
	COY POND	1D3-065	42-35'32"N	70-49'22"W	31OCT84
	CROCKER POND	1D3-004	42-31'40"N	71-51'15"W	08NOV84
	CROCKER POND	1D3-024	42-04'00"N	71-17'45"W	04NOV84
	CUSKY POND	1D2-087	42-19'25"N	72-05'32"W	03NOV84
	DARK BROOK RESERVOIR	1D3-017	42-11'30"N	71-51'45"W	08NOV84
	DEAN POND	1D1-007	42-20'45"N	72-01'30"W	08NOV84
	DYKES POND.	1D3-002	42-36'15"N	70-43'46"W	31OCT84
	EZEKIEL POND	1D1-037	41-48'15"N	70-36'45"W	07NOV84
	FLAX POND	1D1-039	41-43'00"N	70-11'20"W	06NOV84
	FLAX POND	1D2-029	41-41'20"N	70-35'45"W	07NOV84
	FORGE POND	1D2-023	41-55'05"N	70-36'40"W	12NOV84
	FRESH MEADOW POND	1D1-030	41-55'12"N	70-44'30"W	12NOV84
	GIBBS POND	1D2-043	41-16'25"N	70-01'00"W	06NOV84
	GOOSE POND	1D1-012	42-00'30"N	72-46'37"W	08NOV84
	GOOSE POND	1D2-012	42-17'00"N	73-12'00"W	07NOV84
	GOOSE POND	1D2-084	41-41'38"N	70-00'28"W	06NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MASSACHUSETTS (cont)	GORE POND	1D2-010	42-05'00"N	71-57'00"W	08NOV84
	GREAT PONDS (SOUTHERN)	1D3-008	42-23'30"N	72-36'22"W	08NOV84
	GREENWOOD POND	1D2-005	42-33'15"N	71-57'15"W	08NOV84
	GUSHEE POND	1D3-028	41-56'30"N	71-01'45"W	04NOV84
	HALFWAY POND	1D1-035	41-51'15"N	70-37'15"W	12NOV84
	HAMBLIN POND	1D2-076	41-40'04"N	70-24'35"W	07NOV84
	HAMILTON RESERVOIR	1D1-014	42-02'19"N	72-09'16"W	03NOV84
	HOVEYS POND	1C3-061	42-43'05"N	71-04'37"W	31OCT84
	ISLAND POND	1D1-033	41-54'00"N	70-38'30"W	12NOV84
	JOHNSONS POND	1C3-047	42-43'45"N	71-03'15"W	31OCT84
	KENDALL RESERVOIR	1D1-008	42-20'30"N	71-53'30"W	12NOV84
	KENOZA LAKE	1C3-045	42-47'15"N	71-03'30"W	31OCT84
	KINGS POND	1D1-031	41-54'40"N	70-42'15"W	12NOV84
	LAKE GEORGE	1D3-023	42-03'30"N	72-13'20"W	03NOV84
	LAKE WAMPONOAG	1C2-054	42-37'02"N	71-57'45"W	08NOV84
	LARKUM POND	1D1-009	42-09'50"N	73-03'30"W	07NOV84
	LINCOLN POND	1C1-068	42-40'10"N	71-54'45"W	03NOV84
	LITTLE ALUM POND	1D3-020	42-07'45"N	72-09'15"W	03NOV84
	LITTLE HERRING POND	1D1-038	41-49'30"N	70-34'30"W	07NOV84
	LITTLE QUITTACAS POND	1D2-025	41-47'30"N	70-55'00"W	06NOV84
	LITTLE SANDY POND	1D1-068	41-47'47"N	70-36'13"W	07NOV84
	LITTLE WEST POND	1D1-056	41-55'17"N	70-42'24"W	12NOV84
	LONG POND	1D2-059	41-56'40"N	70-00'20"W	06NOV84
	MAQUAN POND	1D2-017	42-03'45"N	70-51-10"W	13NOV84
	MASSAPOAG LAKE	1D2-015	42-06'15"N	71-10'30"W	04NOV84
	MICAH POND	1D2-036	41-38'20"N	70-22'45"W	07NOV84
	MOORES POND	1C2-050	42-39'20"N	72-20'50"W	03NOV84
	MOREY HOLE	1D2-060	41-52'03"N	70-33'29"W	07NOV84
	NEWFIELD POND	1C3-050	42-38'00"N	71-23'20"W	31OCT84
	PACKARD POND	1C1-070	42-38'00"N	72-14'00"W	03NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MASSACHUSETTS (cont)	PATTAQUATTIC POND	1D2-065	42-12'45"N	72-18'39"W	03NOV84
	PELHAM LAKE	1C3-030	42-42'00"N	72-53'30"W	07NOV84
	PLASHES POND	1D2-031	41-40'15"N	70-13'15"W	07NOV84
	PONTOOSUC LAKE	1C3-073	42-30'00"N	73-15'00"W	07NOV84
	QUABBIN RESERVOIR	1D1-004	42-25'00"N	72-17'30"W	03NOV84
	QUEEN LAKE	1D1-003	42-32'00"N	72-07'00"W	08NOV84
	ROBBINS POND	1D1-046	41-42'20"N	70-06'40"W	06NOV84
	ROCKY POND	1D1-034	41-53'10"N	70-41'45"W	12NOV84
	ROUND POND	1D1-061	41-51'08"N	70-36'17"W	07NOV84
	SANDY POND	1D2-027	41-46'20"N	70-39'15"W	07NOV84
	SANDY POND	1D3-003	42-33'45"N	71-33'15"W	31OCT84
	SANTUIT POND	1D1-062	41-39'14"N	70-27'30"W	07NOV84
	SHALLOW POND	1D2-030	41-40'30"N	70-19'30"W	07NOV84
	SHALLOW POND	1D2-053	41-36'33"N	70-35'10"W	07NOV84
	SIBLEY PONDS (NORTHERN)	1D2-009	42-09'00"N	72-00'37"W	03NOV84
	SNOW POND	1D1-064	42-26'54"N	71-50'50"W	08NOV84
	SNOWS POND	1D2-094	41-45'30"N	70-51'10"W	06NOV84
	SPECTACLE POND	1D1-043	41-42'15"N	70-27'30"W	07NOV84
	STETSON POND	1D2-074	42-01'40"N	70-49'39"W	13NOV84
	STEVENS POND	1D3-001	42-41'00"N	70-59'55"W	31OCT84
	STONY BROOK POND	1D2-077	42-06'34"N	71-19'17"W	04NOV84
	STREETER POND	1D1-052	42-20'11"N	71-54'33"W	12NOV84
	STUART POND	1D3-006	42-29'00"N	71-49'45"W	08NOV84
	SWANS POND	1D3-088	42-07'25"N	71-42'10"W	08NOV84
	THE RESERVOIR	1D2-024	41-51'45"N	70-56'30"W	06NOV84
	UPPER MILLPOND	1D1-054	41-43'51"N	70-07'00"W	06NOV84
	WARREN UPPER RESERVOIR	1D3-031	41-49'45"N	71-13'15"W	04NOV84
	WATCHA POND	1D2-064	41-21'17"N	70-36'47"W	06NOV84
	WEST LAKE	1D3-019	42-08'00"N	73-09'45"W	07NOV84
	WESTBORO RESERVOIR	1D3-068	42-14'27"N	71-36'22"W	08NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MASSACHUSETTS (cont)	WESTEND POND	1D2-040	41-27'45"N	70-47'45"W	06NOV84
	WHITE POND	1D1-060	41-42'07"N	70-08'02"W	06NOV84
	WHITE POND	1D2-081	42-23'28"N	71-28'52"W	04NOV84
	WHITEHALL POND	1D1-006	42-22'15"N	71-59'45"W	03NOV84
	WINGS POND	1D2-034	41-37'36"N	70-37'35"W	07NOV84
MICHIGAN	(NO NAME)	2B1-038	46-30'42"N	86-09'10"W	20OCT84
	(NO NAME)	2B2-010	46-52'29"N	88-52'07"W	03NOV84
	(NO NAME)	2B2-012	46-50'32"N	88-52'10"W	03NOV84
	(NO NAME)	2B2-018	46-39'51"N	88-09'37"W	14OCT84
	(NO NAME)	2B2-024	46-38'05"N	88-12'32"W	14OCT84
	(NO NAME)	2B2-032	46-35'15"N	88-09'00"W	14OCT84
	(NO NAME)	2B2-052	46-36'49"N	88-15'16"W	14OCT84
	(NO NAME)	2B2-054	46-39'37"N	88-12'00"W	14OCT84
	(NO NAME)	2B2-055	46-28'05"N	86-11'30"W	20OCT84
	(NO NAME)	2B2-060	46-55'19"N	88-48'30"W	18OCT84
	(NO NAME)	2B2-061	46-35'38"N	88-08'30"W	14OCT84
	(NO NAME)	2B2-064	46-35'09"N	87-57'27"W	14OCT84
	(NO NAME)	2B2-082	46-51'41"N	88-50'48"W	03NOV84
	(NO NAME)	2B2-087	46-31'53"N	85-36'07"W	23OCT84
	(NO NAME)	2B3-055	46-15'52"N	86-39'37"W	25OCT84
	(NO NAME)	2B3-067	47-55'15"N	88-59'00"W	20OCT84
	ALLEN LAKE	2C2-011	46-13'30"N	89-10'25"W	04NOV84
	ANDERSON LAKE	2B3-032	46-13'22"N	87-29'30"W	16OCT84
	BALCOMB LAKE	2C1-001	46-23'02"N	88-57'15"W	03NOV84
	BASS LAKE	2B2-043	46-27'50"N	85-43'00"W	24OCT84
	BASS LAKE	2B3-016	46-31'44"N	88-08'33"W	14OCT84
	BASS LAKE	2C3-022	46-02'45"N	88-46'15"W	25OCT84
	BASS LAKE	2D3-049	44-48'06"N	84-53'01"W	22OCT84
	BEAVERTOWN LAKES (LG.MID)	2B2-076	46-34'18"N	85-44'20"W	24OCT84
	BIG BEAR LAKE	2B2-063	46-37'54"N	88-04'55"W	17OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MICHIGAN (cont)	BLUE LAKE	2D3-056	44-44'47"N	85-09'30"W	22OCT84
	BOHMIER LAKE	2B2-078	46-50'05"N	88-52'47"W	03NOV84
	BONE LAKE	2B3-023	46-22'30"N	88-18'22"W	14OCT84
	BUTO LAKE	2B3-020	46-26'44"N	87-59'45"W	16OCT84
	CAMP 10 LAKE	2B3-075	46-40'55"N	88-09'30"W	14OCT84
	CASEY LAKE	2B3-027	46-17'20"N	87-55'00"W	16OCT84
	CASTLE LAKE	2C1-057	46-18'56"N	89-04'27"W	03NOV84
	CATARACT BASIN	2B3-028	46-18'50"N	87-31'00"W	16OCT84
	CLAIR LAKE	2B2-026	46-37'32"N	88-11'25"W	14OCT84
	CLEAR SLOUGH	2B3-043	46-02'25"N	86-12'30"W	24OCT84
	CLIFF LAKE	2B3-004	46-50'54"N	87-58'24"W	17OCT84
	CLIFFORD LAKE	2D3-046	45-01'40"N	84-38'10"W	22OCT84
	CLYDE LAKE	2B1-060	46-32'30"N	86-10'00"W	20OCT84
	CORNELIA LAKE	2C3-006	46-16'05"N	89-30'10"W	04NOV84
	CORNER LAKE	2B2-084	46-40'50"N	88-04'30"W	17OCT84
	CRANBERRY LAKE	2B2-049	46-27'06"N	86-11'02"W	20OCT84
	CROOKED LAKE	2B2-067	46-36'11"N	88-09'21"W	14OCT84
	CROOKED LAKE	2C3-012	46-13'53"N	89-17'17"W	04NOV84
	DAM LAKE	2B3-036	46-10'57"N	86-43'15"W	25OCT84
	DEADMAN LAKE	2B1-055	46-32'41"N	86-03'00"W	23OCT84
	DEADMANS LAKE	2B2-051	46-26'26"N	85-41'47"W	23OCT84
	DEER LAKE	2B2-091	46'30'25"N	86-14'35"W	20OCT84
	DEER LAKE	2B3-003	47-21'15"N	88-02'15"W	18OCT84
	DELENE LAKE	2B2-098	46-32'29"N	88-24'19"W	17OCT84
	DEVILS HEAD LAKE	2C2-057	46-12'55"N	89-14'30"W	04NOV84
	DINNER LAKE	2C2-017	46-12'00"N	89-08'00"W	04NOV84
	DISHNO LAKE	2B2-031	46-37'30"N	87-55'53"W	13OCT84
	DONKEN LAKE	2B2-009	46-55'53"N	88-47'58"W	18OCT84
	EAST LAKE	2B3-018	46-31'53"N	85-59'20"W	23OCT84
	EATON LAKE	2D3-044	45-10'00"N	85-16'15"W	22OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MICHIGAN (cont)	ELEVENMILE LAKE	2B2-090	47-00'57"N	88-42'30"W	18OCT84
	ESTES LAKE	2B1-031	46-33'31"N	88-45'18"W	03NOV84
	EVERGREEN LAKE	2B2-095	46-42'39"N	88-02'09"W	17OCT84
	EWATT LAKE	2B1-068	46-33'00"N	86-10'48"W	20OCT84
	FAWN LAKE	2B2-083	46-30'02"N	86-17'49"W	20OCT84
	FOREST LAKE	2C1-004	46-19'35"N	88-57'05"W	03NOV84
	FOX LAKE	2B3-013	46-35'32"N	86-02'04"W	20OCT84
	FRENCHMANS LAKE	2B3-052	46-21'42"N	85-21'00"W	23OCT84
	FULLER LAKE	2B1-063	46-35'15"N	88-47'05"W	03NOV84
	GIBSON LAKE	2D3-023	46-11'59"N	88-26'35"W	03NOV84
	GINSEL LAKE	2D3-047	44-59'32"N	84-29'52"W	22OCT84
	GOPHER LAKE	2B1-061	46-31'12"N	86-03'30"W	23OCT84
	GRAND SABLE LAKE	2B3-009	46-38'15"N	86-02'30"W	20OCT84
	GRASS LAKE	2B3-061	46-14'17"N	85-23'28"W	22OCT84
	GUDEGAST LAKE	2C2-016	46-10'08"N	89-09'27"W	04NOV84
	GUIDES LAKE	2C3-011	46-14'20"N	89-27'40"W	04NOV84
	HALL LAKE	2B2-008	46-59'40"N	88-45'34"W	18OCT84
	HASSCIB LAKE	2B2-065	46-37'56"N	88-01'25"W	17OCT84
	HAWK LAKE	2C3-002	46-19'10"N	89-44'15"W	06NOV84
	HEART LAKE	2C2-001	46-21'20"N	89-44'45"W	06NOV84
	HERBERT LAKE	2B2-100	46-39'00"N	88-06'25"W	17OCT84
	HILLTOP LAKE	2C2-010	46-14'22"N	89-14'00"W	04NOV84
	HONEYSUCKLE LAKE	2C2-002	46-16'12"N	89-43'32"W	09OCT84
	INKPOT LAKE	2C3-053	46-13'44"N	89-30'21"W	04NOV84
	ISHKOTE LAKE	2C1-010	46-07'25"N	88-59'30"W	10OCT84
	ISLAND LAKE	2B3-007	46-40'18"N	87-47'10"W	13OCT84
	ISLAND LAKE	2B3-030	46-16'05"N	86-38'51"W	25OCT84
	JACKSON LAKE	2D3-045	45-05'10"N	84-09'40"W	22OCT84
	JOHNS LAKES (WESTERN)	2B3-051	46-31'50"N	85-54'16"W	23OCT84
	JOHNSON LAKE	2B1-047	46-25'30"N	85-02'38"W	22OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MICHIGAN (cont)	KETCHUM LAKE	2C3-007	46-16'10"N	88-49'50"W	03NOV84
	KING LAKE	2B2-016	46-31'14"N	88-24'30"W	17OCT84
	KLONDIKE LAKE	2B3-034	46-13'18"N	86-30'10"W	25OCT84
	KUJAWA LAKE	2D3-066	44-59'29"N	84-26'47"W	22OCT84
	LAKE ANNIE	2B3-058	47-10'39"N	88-35'25"W	18OCT84
	LAKE EVA	2B2-034	47-01'15"N	88-45'52"W	18OCT84
	LAKE GOGEBIC	2C3-001	46-30'00"N	89-35'00"W	04NOV84
	LAKE GORDON	2B2-020	46-41'53"N	88-02'16"W	17OCT84
	LAKE NITA	2B1-035	46-33'00"N	86-03'51"W	20OCT84
	LAKE RAYMOND	2B2-097	46-39'38"N	87-58'25"W	14OCT84
	LAKE THERESA	2B3-001	48-02'05"N	88-37'50"W	20OCT84
	LAMBERT LAKE	2B1-066	46-30'33"N	86-05'08"W	20OCT84
	LAURIE LAKES (SE)	2B3-014	46-35'49"N	85-04'30"W	23OCT84
	LITTLE WHITE GOAT LAKE	2B2-029	46-35'56"N	88-04'16"W	17OCT84
	LOG LAKE	2B2-033	46-35'15"N	87-55'45"W	13OCT84
	LOIS LAKE	2C2-051	46-11'52"N	89-15'00"W	04NOV94
	LONG LAKE	2B1-042	46-30'08"N	86-05'17"W	20OCT84
	LONG LAKE	2B3-022	46-27'28"N	85-49'02"W	23OCT84
	LOST LAKE	2B3-005	46-44'03"N	88-21'42"W	17OCT84
	MALLARD LAKE	2B1-064	46-33'51"N	86-06'36"W	20OCT84
	MARION LAKE	2C2-008	46-15'52"N	89-05'15"W	03NOV84
	MARKEY LAKE	2B1-029	46-34'22"N	88-46'55"W	03NOV84
	MARSH LAKE	2C2-015	46-11'20"N	89-15'00"W	04NOV84
	MCDONALD LAKE	2B3-077	45-59'00"N	85-58'28"W	24OCT84
	MCNEARNEY LAKE	2B1-048	46-25'35"N	84-57'30"W	22OCT84
	MICHIGAMME BASIN	2B3-070	46-23'36"N	87-59'19"W	16OCT84
	MOCCASIN LAKE	2C3-010	46-14'06"N	89-30'45"W	04NOV84
	MUD LAKE	2B3-062	46-16'38"N	84-30'08"W	22OCT84
	NELLIGAN LAKE	2B3-079	46-33'50"N	88-08'07"W	14OCT84
	NELSON LAKE	2B3-035	46-13'42"N	85-22'50"W	22OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MICHIGAN (cont)	NUGENT LAKE	2B1-036	46-31'42"N	86-11'38"W	20OCT84
	OPAL LAKE	2C2-012	46-15'00"N	89-07'45"W	03NOV84
	OSTRANDER LAKE	2B3-071	46-10'05"N	86-36'43"W	25OCT84
	OTTER LAKE	2B2-038	46-35'45"N	85-39'32"W	24OCT84
	OWL LAKE	2B1-043	46-30'24"N	86-04'20"W	20OCT84
	PAINT LAKE	2C3-003	46-21'00"N	88-53'15"W	03NOV84
	PARLEMEE LAKE	2D3-022	46-13'40"N	88-00'45"W	13OCT84
	PEACOCK LAKE	2B3-042	46-04'42"N	86-47'58"W	25OCT84
	PEANUT LAKE	2B2-062	46-26'39"N	85-43'28"W	24OCT84
	PECK AND RYE LAKE	2B1-052	46-23'50"N	84-58'00"W	22OCT84
	PENEGOR LAKE	2B1-065	46-36'55"N	88-51'36"W	03NOV84
	PINE LAKE	2B2-079	46-58'57"N	88-43'07"W	18OCT84
	PINERY LAKES (LARGEST)	2B3-056	46-46'03"N	88-23'30"W	17OCT84
	PRETTY LAKE	2B2-070	46-36'05"N	85-39'37"W	24OCT84
	QUINLAN LAKE	2B2-044	46-25'39"N	85-46'31"W	23OCT84
	ROBINSON LAKE	2C1-005	46-21'20"N	88-55'00"W	03NOV84
	ROSS LAKE	2B3-069	46-28'50"N	86-15'30"W	20OCT84
	ROUND LAKE	2B3-012	46-33'24"N	87-56'52"W	14OCT84
	RUMBLE LAKE	2B3-037	46-11'00"N	86-33'33"W	25OCT84
	SAGE LAKES (LG CENTRAL)	2D3-048	44-53'30"N	84-09'10"W	22OCT84
	SECTION FOUR LAKE	2B3-008	46-40'26"N	85-18'15"W	23OCT84
	SECTION 5 LAKE	2B2-019	46-40'14"N	88-05'05"W	17OCT84
	SLEEPER LAKE	2B2-041	46-30'33"N	85-33'07"W	23OCT84
	SOLDIER LAKE	2B1-050	46-20'57"N	84-51'59"W	22OCT84
	SPRING LAKE	2B1-046	46-29'37"N	86-06'59"W	20OCT84
	SPRING LAKE	2B3-059	46-05'38"N	86-32'16"W	25OCT84
	SPRUCE LAKE	2B1-044	46-31'03"N	86-04'00"W	23OCT84
	STONINGTON LAKE	2B2-088	46-57'47"N	88-47'10"W	18OCT84
	STROUBLE LAKE	2B3-039	46-08'50"N	85-11'45"W	22OCT84
	STUART LAKE	2B3-072	46-11'53"N	85-51'10"W	24OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MICHIGAN (cont)	STUMP LAKE	2B3-054	46-18'55"N	87-23'38"W	16OCT84
	SWAMP LKS.(LG.EAST)	2B3-076	46-36'20"N	85-23'39"W	23OCT84
	TAYLOR LAKE	2C2-013	46-14'55"N	89-02'30"W	03NOV84
	TEAL LAKE	2B1-034	46-33'57"N	86-05'33"W	20OCT84
	TIGHE LAKE	2B3-049	45-54'28"N	86-26'58"W	24OCT84
	TINSEL LAKE	2C1-003	46-21'40"N	88-58'55"W	03NOV84
	TOIVOLA LAKES (WEST)	2B2-007	46-59'14"N	88-48'01"W	18OCT84
	TRIANGLE LAKE	2B1-041	46-31'48"N	86-05'37"W	23OCT84
	TWIN LAKE	2B3-057	46-27'50"N	87-59'57"W	16OCT84
	TWIN LAKES	2B3-031	46-18'29"N	85-32'00"W	22OCT84
	UPPER BARAGA LAKE	2B2-066	46-40'52"N	88-01'57"W	17OCT84
	VAN LAKE	2B2-053	46-35'55"N	88-13'35"W	14OCT84
	WEST BRANCH LAKES (SE)	2B1-040	46-30'44"N	86-05'46"W	20OCT84
	WEST BRANCH LAKES (SW)	2B1-039	46-30'38"N	86-06'18"W	20OCT84
	WHITE DEER LAKE	2B2-021	46-40'30"N	88-00'00"W	17OCT84
	WISE LAKE	2B1-037	46-31'35"N	86-10'23"W	20OCT84
MINNESOTA (cont)	(NO NAME)	2A1-046	48-15'40"N	92-09'50"W	18OCT84
	(NO NAME)	2A2-029	48-02'10"N	90-48'10"W	29OCT84
	(NO NAME)	2A3-006	48-09'00"N	90-56'40"W	24OCT84
	(NO NAME)	2A3-081	47-29'40"N	92-36'30"W	07OCT84
	(NO NAME)	2D2-008	46-19'30"N	92-51'45"W	28OCT84
	(NO NAME)	2D2-011	46-07'40"N	92-55'05"W	28OCT84
	(NO NAME)	2D2-080	46-11'42"N	92-59'02"W	28OCT84
	(NO NAME)	2D3-017	46-23'30"N	93-58'00"W	14OCT84
	ADELE LAKE	2D2-058	47-28'14"N	93-39'14"W	28OCT84
	AGASSA LAKE	2A1-014	48-03'15"N	91-57'00"W	18OCT84
	AMBER LAKE	2A2-013	47-57'15"N	91-11'00"W	23OCT84
	AMBUSH LAKE	2A3-068	48-10'22"N	90-51'38"W	24OCT84
	ANGLEWORM LAKE	2A1-047	48-05'15"N	91-53'20"W	30OCT84
	BAKEKANA LAKE	2A2-026	48-02'55"N	91-09'15"W	23OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	BALD EAGLE LAKE	2A2-052	47-49'55"N	91-33'15"W	16OCT84
	BALL CLUB LAKE	2A2-020	47-54'46"N	90-29'37"W	01NOV84
	BALLON LAKE	2D2-001	47-29'00"N	93-40'00"W	28OCT84
	BARTO LAKE	2A1-050	47-54'45"N	90-57'30"W	24OCT84
	BEAR ISLAND LAKE	2A3-040	47-46'15"N	92-00'00"W	08OCT84
	BEARTRACK LAKE	2A1-006	48-18'07"N	92-12'00"W	18OCT84
	BECOOSIN LAKE	2A2-012	47-56'53"N	91-23'36"W	16OCT84
	BEDFORD LAKE	2A3-077	48-03'13"N	91-15'36"W	23OCT84
	BENCH LAKE	2A2-002	48-03'20"N	90-14'15"W	29OCT84
	BERGEN LAKE	2D3-010	46-59'36"N	92-19'15"W	07OCT84
	BIG LAKE	2A1-011	48-05'00"N	92-00'15"W	30OCT84
	BIG RICE LAKE	2A1-048	48-01'45"N	92-01'30"W	17OCT84
	BLACKWOOD LAKE	2D3-064	46-46'48"N	92-53'10"W	13OCT84
	BLUEBILL LAKE	2A3-024	47-35'53"N	91-12'16"W	20OCT84
	BONITA LAKE	2A2-055	48-00'37"N	90-59'30"W	24OCT84
	BOOTLEG LAKE	2A1-059	48-02'30"N	92-11'50"W	17OCT84
	BOYS LAKE	2A3-058	47-52'25"N	90-13'11"W	20OCT84
	BUCK LAKE	2A1-018	47-58'00"N	92-11'53"W	17OCT84
	BUCKSHOT LAKE	2A3-083	47-53'48"N	92-08'53"W	22OCT84
	BULGE LAKE	2A3-045	47-47'27"N	90-45'48"W	29OCT84
	BURNTSIDE LAKE	2A2-046	47-55'45"N	92-00'00"W	16OCT84
	BURT LAKE	2A2-011	48-00'35"N	90-48'35"W	29OCT84
	CARIBOU LAKE	2A3-009	48-04'15"N	90-18'45"W	29OCT84
	CAVITY LAKE	2A3-053	48-05'52"N	90-59'45"W	24OCT84
	CHESTER LAKE	2A1-023	47-59'03"N	90-05'00"W	01NOV84
	CLEAR LAKE	2D2-059	46-18'09"N	92-52'49"W	28OCT84
	COMSTOCK LAKE	2D3-052	47-13'15"N	92-13'30"W	13OCT84
	COOK COUNTY LAKE	2A3-002	48-06'05"N	91-02'05"W	23OCT84
	CORNER LAKE	2A3-079	48-16'55"N	92-46'45"W	21OCT84
	CROOKED LAKE	2D2-012	46-07'15"N	92-33'00"W	28OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	CUMMINGS LAKE	2A1-044	47-59'30"N	92-05'00"W	22OCT84
	DEEPWATER LAKE	2A3-057	47-37'15"N	92-49'30"W	07OCT84
	DIX LAKE	2A3-082	48-04'15"N	91-14'00"W	23OCT84
	ECHO LAKE	2A3-043	48-10'30"N	92-28'30"W	21OCT84
	ELLA LAKE	2A1-027	47-52'15"N	90-57'10"W	23OCT84
	ELUSION LAKE	2A3-007	48-05'24"N	90-55'15"W	24OCT84
	EUGENE LAKE	2A1-028	48-18'30"N	92-13'10"W	18OCT84
	FAIRY LAKE	2A1-012	48-06'15"N	91-49'50"W	17OCT84
	FALLS LAKES (NORTHERN)	2A3-062	47-44'25"N	92-10'45"W	08OCT84
	FAMINE LAKE	2A2-015	47-57'50"N	90-43'00"W	29OCT84
	FAULT LAKE	2A2-032	48-02'15"N	90-07'30"W	29OCT84
	FINSTAD LAKE	2A2-008	48-05'00"N	92-26'35"W	21OCT84
	FLICKER LAKE	2A2-036	48-01'00"N	90-36'40"W	29OCT84
	FRANKLIN LAKE	2A3-005	48-18'00"N	92-37'00"W	21OCT84
	FUN LAKE	2A2-003	48-00'10"N	90-44'20"W	29OCT84
	GATE LAKE	2A3-054	47-41'00"N	92-41'30"W	07OCT84
	GERALDINE LAKE	2A1-020	47-57'50"N	92-00'45"W	16OCT84
	GRASS LAKE	2D2-010	46-09'55"N	92-58'20"W	28OCT84
	GREEN LAKE	2A2-054	48-04'12"N	90-54'00"W	24OCT84
	GREENWOOD LAKE	2A1-036	48-00'00"N	90-10'45"W	01NOV84
	GUN LAKE	2A1-054	48-19'34"N	92-12'05"W	18OCT84
	HARMONY LAKE	2A3-010	48-00'10"N	91-13'07"W	23OCT84
	HARVEY LAKE	2A3-032	47-23'30"N	92-31'20"W	07OCT84
	HASSEL LAKE	2A1-019	47-56'30"N	92-06'00"W	16OCT84
	HAUNTED LAKE	2A1-005	48-18'45"N	92-11'15"W	18OCT84
	HERITAGE LAKE	2A1-030	48-13'30"N	92-12'45"W	30OCT84
	HOE LAKE	2A2-033	48-01'00"N	91-03'45"W	24OCT84
	HOOK LAKE	2A1-057	48-01'12"N	91-59'15"W	22OCT84
	HOPKINS LAKE	2A1-015	48-04'07"N	91-53'00"W	30OCT84
	HORN LAKE	2A2-023	47-51'13"N	90-47'37"W	29OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	HORSESHOE LAKE	2A2-043	47'52'38"N	91-25'30"W	16OCT84
	HUMPBACK LAKE	2A2-004	47-59'10"N	91-05'50"W	23OCT84
	HUNCH LAKE	2A1-038	48-01'55"N	91-56'07"W	22OCT84
	JAM LAKE	2A2-034	48-01'07"N	90-58'00"W	24OCT84
	JAMMER LAKE	2A3-020	47-39'25"N	92-36'30"W	07OCT84
	JAVA LAKE	2A2-040	47-56'00"N	90-52'30"W	23OCT84
	JOHNSON LAKE	2A3-016	47-42'15"N	93-05'50"W	07OCT84
	JORGENS LAKE	2A2-059	48-29'04"N	92-50'45"W	21OCT84
	KARL LAKE	2A2-035	48-01'15"N	90-46'15"W	29OCT84
	KAWISHIWI LAKE	2A1-026	47-50'35"N	91-06'30"W	23OCT84
	KNIGHT LAKE	2A1-037	47-52'30"N	91-01'10"W	23OCT84
	LAKE AGNES	2A1-032	48-13'15"N	92-03'30"W	18OCT84
	LEGEND LAKE	2A1-002	48-09'10"N	92-03'15"W	18OCT84
	LITTLE CRAB LAKE	2A1-043	47-57'20"N	92-04'30"W	16OCT84
	LITTLE PINE LAKE	2D3-013	46-42'15"N	94-04'00"W	14OCT84
	LOFT LAKE	2A1-022	48-00'45"N	90-04'05"W	01NOV84
	LONG LAKE	2D3-004	47-24'50"N	93-36'50"W	28OCT84
	LONG LAKE	2D3-014	46-38'50"N	93-27'30"W	13OCT84
	LONGLEG LAKE	2A1-056	47-54'50"N	90-56'37"W	24OCT84
	LOUIS LAKE	2A1-003	48-02'38"N	91-49'07"W	17OCT84
	LOWER TROUT LAKE	2A2-048	47-56'33"N	90-27'07"W	29OCT84
	LUCKY FINN LAKE	2A1-029	48-16'35"N	92-10'45"W	18OCT84
	MAGIC LAKE	2A1-024	47-53'20"N	90-57'15"W	24OCT84
	MAJESTIC LAKE	2A3-064	47-27'35"N	92-37'42"W	07OCT84
	MALBERG LAKE	2A2-057	47-57'03"N	91-08'07"W	23OCT84
	MCDIVITT LAKE	2A2-050	48-30'53"N	92-44'30"W	21OCT84
	MCDONALD LAKE	2D3-001	47-39'45"N	93-37'00"W	13OCT84
	MEAT LAKE	2A2-058	47-55'07"N	92-05'48"W	16OCT84
	MEDLEY LAKE	2A1-017	48-01'15"N	92-02'30"W	17OCT84
	MOON LAKE	2D3-003	47-32'20"N	93-29'40"W	14OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	MOOSE LAKE	2A3-034	48-18'50"N	92-41'15"W	21OCT84
	MOOSE LAKE	2A3-044	48-00'00"N	91-30'00"W	16OCT84
	MOOSE LAKE	2A3-078	47-33'41"N	91-08'00"W	20OCT84
	MOSS LAKE	2A3-055	48-04'00"N	90-28'30"W	01NOV84
	MULE LAKE	2A1-060	48-08'15"N	92-02'15"W	18OCT84
	MURPHY LAKE	2D3-006	47-18'00"N	92-29'45"W	07OCT84
	NIBIN LAKE	2A1-010	48-10'45"N	91-59'00"W	18OCT84
	NISWI LAKE	2A1-016	48-01'10"N	92-08'00"W	17OCT84
	NOKAY LAKE	2D3-068	46-22'30"N	93-58'00"W	14OCT84
	NORTH STAR LAKE	2D3-069	47-33'30"N	93-39'40"W	14OCT84
	OGISHKEMUNCIE LAKE	2A3-036	48-05'15"N	91-04'30"W	23OCT84
	OLE LAKE	2A1-053	47-58'37"N	92-01'45"W	16OCT84
	ORIOLE LAKE	2A1-025	47-54'45"N	90-55'30"W	24OCT84
	OWL LAKE	2A2-028	48-02'25"N	90-54'30"W	24OCT84
	OYSTER LAKE	2A1-031	48-13'30"N	92-06'00"W	18OCT84
	PARTRIDGE LAKE	2A3-085	48-05'03"N	90-29'15"W	29OCT84
	PEAR LAKE	2A2-009	48-04'10"N	91-07'10"W	23OCT84
	PHOSPOR LAKE	2A2-022	47-50'07"N	91-29'07"W	16OCT84
	PICKEREL LAKE	2A3-070	47-55'07"N	91-40'00"W	16OCT84
	PICKET LAKE	2A1-039	48-01'48"N	91-50'45"W	17OCT84
	PINE LAKE	2A1-049	47-56'15"N	92-15'00"W	17OCT84
	PLACID LAKE	2A3-041	47-47'45"N	91-14'58"W	17OCT84
	POE LAKE	2A2-014	47-57'15"N	90-57'15"W	24OCT84
	POSSE LAKE	2A1-009	48-15'00"N	92-09'45"W	18OCT84
	PRAIRIE LAKE	2D3-012	46-47'30"N	92-54'15"W	13OCT84
	PURVIS LAKE	2A3-013	47-49'30"N	92-00'30"W	22OCT84
	RAGGED LAKE	2A2-062	48-00'32"N	90-51'30"W	29OCT84
	RAINY LAKE	2A3-061	48-34'30"N	92-54'00"W	21OCT84
	RAMSHEAD LAKE	2A1-033	48-10'45"N	92-06'30"W	18OCT84
	RANIER LAKE	2D3-002	47-35'30"N	93-41'10"W	14OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	RICE LAKE	2A1-040	48-01'20"N	91-58'20"W	22OCT84
	RIDGEPOLE LAKE	2A3-074	47-32'45"N	91-43'00"W	08OCT84
	ROUND LAKE	2A2-007	48-08'40"N	91-42'45"W	17OCT84
	RUBY LAKE	2A1-008	48-13'45"N	92-10'20"W	30OCT84
	SANDPIT LAKE	2A2-005	48-02'20"N	91-47'30"W	17OCT84
	SAUNA LAKE	2A2-045	48-08'35"N	91-44'37"W	17OCT84
	SCHLAMM LAKE	2A1-042	47-57'10"N	92-08'15"W	17OCT84
	SEA GULL LAKE	2A3-035	48-07'30"N	90-56'15"W	24OCT84
	SEAHORSE LAKE	2A2-010	48-04'33"N	90-56'55"W	24OCT84
	SEAL LAKE	2A2-001	48-02'15"N	90-43'13"W	29OCT84
	SERENADE LAKE	2A1-013	48-03'15"N	92-09'00"W	17OCT84
	SHELL LAKE	2A1-051	48-12'15"N	92-12'30"W	30OCT84
	SLETTEN LAKE	2A1-004	47-59'40"N	91-53'00"W	30OCT84
	SLIM LAKE	2A1-045	48-17'40"N	92-15'00"W	18OCT84
	SMALL LAKE	2A3-052	47-46'25"N	91-13'50"W	17OCT84
	SNOWBANK LAKE	2A3-069	48-00'00"N	91-25'00"W	16OCT84
	SNOWSHOE LAKE	2D2-075	46-04'56"N	93-15'00"W	28OCT84
	SOCK LAKE	2A3-015	47-44'50"N	92-00'40"W	08OCT84
	SPRING LAKE	2D3-008	47-07'25"N	93-52'45"W	14OCT84
	STEVENS LAKE	2D3-055	47-20'00"N	93-42'30"W	28OCT84
	STUART LAKE	2A1-034	48-11'15"N	92-00'15"W	18OCT84
	STUART LAKE	2A3-076	47-33'50"N	93-02'50"W	14OCT84
	SUNFISH LAKE	2A1-055	47-59'30"N	90-09'15"W	01NOV84
	TAMARACK LAKE	2A3-011	47-53'30"N	92-06'30"W	16OCT84
	TEE LAKE	2A1-041	48-00'00"N	91-52'45"W	22OCT84
	THIRD LAKE	2A1-035	48-06'00"N	92-00'30"W	18OCT84
	TRAP LAKE	2A2-031	48-01'40"N	90-21'45"W	29OCT84
	TRIDENT LAKE	2A3-008	48-03'10"N	91-21'20"W	23OCT84
	TROUT LAKE	2A2-044	47-57'30"N	92-18'45"W	17OCT84
	TURTLE LAKE	2A2-061	47-51'15"N	91-33'08"W	16OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	TWO DEER LAKE	2A3-046	47-41'15"N	91-34'25"W	08OCT84
	VANCE LAKE	2A2-016	47-57'47"N	90-35'52"W	29OCT84
	WARD LAKE	2A3-004	47-42'55"N	90-37'59"W	20OCT84
	WASHUSK LAKE #1	2D3-007	47-14'55"N	92-16'52"W	13OCT84
	WEASEL LAKE	2A2-018	47-53'47"N	91-31'00"W	16OCT84
	WEST PIKE LAKE	2A3-037	48-05'15"N	90-12'15"W	29OCT84
	WEST TWO RIVER RES	2A3-080	47-28'48"N	92-39'30"W	07OCT84
	WHIP LAKE	2A2-019	47-55'10"N	90-41'45"W	29OCT84
	WHIZ LAKE	2A2-053	47-58'00"N	91-10'15"W	23OCT84
	WOLF LAKE	2A3-012	47-53'00"N	92-01'30"W	16OCT84
	WREN LAKE	2D3-011	46-52'20"N	93-53'45"W	14OCT84
	YODELER LAKE	2A1-001	48-14'20"N	92-11'45"W	30OCT84
	ZENITH LAKE	2A2-039	47-56'50"N	90-54'45"W	24OCT84
NEW HAMPSHIRE	(NO NAME)	1C2-022	43-52'50"N	71-18'30"W	25OCT84
	(NO NAME)	1C2-039	43-03'15"N	71-52'15"W	01NOV84
	ADDER POND	1C2-027	43-26'48"N	71-48'33"W	24OCT84
	ARLINGTON MILL RESERVOIR	1C3-043	42-49'15"N	71-12'30"W	30OCT84
	BABBIDGE RESERVOIR	1C2-057	42-56'05"N	72-13'00"W	01NOV84
	BILLINGS POND	1C1-050	43-17'00"N	71-56'30"W	24OCT84
	BOG POND	1C2-063	43-26'20"N	71-52'15"W	24OCT84
	BRAGG POND	1C1-025	44-46'00"N	71-15'00"W	18OCT84
	BROAD BAY	1C1-079	43-48'23"N	71-06'04"W	29OCT84
	BURNS POND	1C3-025	44-21'00"N	71-38'30"W	25OCT84
	CALDWELL POND	1C1-052	43-04'36"N	72-18'20"W	24OCT84
	CHESHIRE POND	1C2-051	42-49'15"N	72-00'40"W	01NOV84
	COOKS POND	1C1-037	43-51'30"N	71-09'00"W	25OCT84
	COOKS POND	1C1-045	43-33'45"N	71-05'15"W	29OCT84
	CRANE NECK POND	1C2-030	43-20'20"N	71-32'30"W	30OCT84
	CROOKED POND	1C2-032	43-17'40"N	71-25'45"W	30OCT84
	DARRAH POND	1C3-055	42-49'52"N	71-26'40"W	31OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW HAMPSHIRE (cont)	DODGE POND	1C1-049	43-13'20"N	72-10'40"W	24OCT84
	DORRS POND	1C2-040	43-00'50"N	71-27'15"W	30OCT84
	DUBES POND	1C2-067	43-04'13"N	71-24'07"W	30OCT84
	DUNCAN LAKE	1C1-042	43-42'15"N	71-06'30"W	29OCT84
	ENFIELD RESERVOIR	1C1-041	43-39'50"N	72-09'00"W	23OCT84
	FERRIN POND	1C1-065	43-02'30"N	71-46'30"W	01NOV84
	FRENCH POND	1C3-068	44-06'05"N	71-58'08"W	25OCT84
	GREAT HILL POND	1C2-061	43-53'20"N	71-20'00"W	25OCT84
	HALL POND	1C3-028	43-15'00"N	72-21'30"W	01NOV84
	HAUNTED LAKE	1C1-066	42-59'00"N	71-46'00"W	01NOV84
	JUGGERNAUT POND	1C2-041	42-57'35"N	72-00'45"W	01NOV84
	KEZAR LAKE	1C2-053	43-21'45"N	71-57'00"W	24OCT84
	KIMBALL POND	1C2-036	43-11'15"N	71-40'00"W	01NOV84
	LAKE ABENIKI	1C1-001	44-52'40"N	71-18'00"W	18OCT84
	LAKE WAUKEWAN	1C2-024	43-39'30"N	71-31'30"W	24OCT84
	LIME POND	1C3-023	44-52'15"N	71-29'20"W	18OCT84
	LONG POND	1C1-004	44-03'00"N	71-53'30"W	25OCT84
	LONG POND	1C2-033	43-12'14"N	71-48'43"W	01NOV84
	MARSH POND	1C2-034	43-14'40"N	71-23'45"W	30OCT84
	MARTIN MEADOW POND	1C3-063	44-26'30"N	71-36'30"W	25OCT84
	MEETINGHOUSE POND	1C2-029	43-24'45"N	71-21-40"W	30OCT84
	MENDUMS POND	1C2-037	43-10'30"N	71-04'00"W	30OCT84
	MOSES POND	1C3-027	43-32'25"N	72-18'50"W	23OCT84
	MUDGETTS POND	1C1-040	43-46'10"N	71-59'40"W	24OCT84
	NATICOOK LAKE	1C3-044	42-49'10"N	71-31'45"W	31OCT84
	NAY POND	1C1-087	44-34'15"N	71-17'03"W	18OCT84
	NORTH RIVER POND	1C2-055	43-11'45"N	71-07'45"W	30OCT84
	NORTHWOOD LAKE	1C2-059	43-12'33"N	71-15'00"W	30OCT84
	OSSIPEE LAKE	1C1-039	43-47'30"N	71-08'00"W	29OCT84
	OTTER POND	1C1-047	43-26'00"N	72-03'30"W	24OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW HAMPSHIRE (cont)	PEARL LAKE	1C1-030	44-12'00"N	71-52'00"W	25OCT84
	PEMIGEWASSET LAKE	1C2-062	43-36'55"N	71-35'45"W	24OCT84
	PEQUAWKET POND	1C1-032	43-58'15"N	71-08'15"W	25OCT84
	PIKE POND	1C1-027	44-37'50"N	71-21'10"W	18OCT84
	RESERVOIR POND	1C1-038	43-47'15"N	72-02'30"W	24OCT84
	ROCKY POND	1C1-082	43-50'40"N	71-59'33"W	25OCT84
	ROUND POND	1C1-024	44-48'15"N	71-07'15"W	18OCT84
	SCOTT POND	1C2-044	42-47'15"N	72-07'00"W	01NOV84
	SEBBINS POND	1C2-043	42-55'45"N	71-28'45"W	31OCT84
	SHAWS POND	1C1-046	43-32'00"N	71-08'30"W	29OCT84
	SIP POND	1C2-045	42-44'00"N	72-06'15"W	01NOV84
	SMITH POND	1C1-044	43-35'15"N	72-08'00"W	23OCT84
	SMITH POND	1C2-035	43-09'15"N	72-01'45"W	24OCT84
	SQUAM LAKE	1C2-023	43-46'00"N	71-31'00"W	24OCT84
	STAR LAKE	1C1-086	43-27'43"N	72-03'20"W	24OCT84
	STONE POND	1C2-042	42-53'45"N	72-09'15"W	01NOV84
	STUMP POND	1C1-067	42-44'45"N	71-56'15"W	03NOV84
	SUNSET LAKE	1C2-028	43-28'15"N	71-18'00"W	30OCT84
	TURTLE POND	1C2-066	43-15'15"N	71-31'00"W	30OCT84
	UPPER BAKER POND	1C1-009	43-54'30"N	71-59'30"W	25OCT84
	UPPER BEECH POND	1C1-084	43-38'54"N	71-12'15"W	29OCT84
	WAUKEENA LAKE	1C2-026	43-31'00"N	71-53'45"W	24OCT84
	WHEELWRIGHT POND	1C3-040	43-08'20"N	71-00'30"W	30OCT84
NEW JERSEY	(NO NAME)	1B3-048	40-52'15"N	74-37'45"W	10NOV84
	BASS LAKE	1B3-067	41-01'33"N	74-57'12"W	18NOV84
	CLOVE ACRES LAKE	1B3-058	41-12'53"N	74-36'44"W	10NOV84
	HIGH CREST LAKE	1B3-044	41-01'10"N	74-22'30"W	10NOV84
	KITCHELL LAKE	1B3-040	41-05'15"N	74-21'15"W	10NOV84
	LAKE STOCKHOLM	1B3-042	41-04'05"N	74-31'45"W	10NOV84
	STAG POND	1B3-045	40-59'34"N	74-41'49"W	18NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK	(NO NAME)	1A2-048	43-07'39"N	74-35'20"W	31OCT84
	(NO NAME)	1A3-019	43-34'15"N	76-12'00"W	17OCT84
	(NO NAME)	1A3-057	44-41'47"N	73-37'50"W	08OCT84
	(NO NAME)	1A3-063	43-41'44"N	75-00'18"W	14OCT84
	(NO NAME)	1B1-019	41-30'40"N	74-46'25"W	10NOV84
	(NO NAME)	1B1-061	41-59'03"N	74-30'43"W	15NOV84
	(NO NAME)	1B3-023	41-37'40"N	73-37'30"W	06NOV84
	(NO NAME)	1B3-033	41-20'15"N	74-32'15"W	10NOV84
	(NO NAME)	1B3-052	41-29'23"N	74-32'20"W	10NOV84
	(NO NAME)	1D3-048	40-51'21"N	73-27'45"W	06NOV84
	ADIRONDACK LAKE	1A3-067	43-47'22"N	74-15'42"W	30OCT84
	AFTON LAKE	1B3-005	42-14'20"N	75-30'45"W	15NOV84
	ARBUTUS POND	1A1-052	43-59'15"N	74-14'30"W	15OCT84
	BALLSTON LAKE (NORTH END)	1A3-037	42-57'00"N	73-51'10"W	04NOV84
	BARGER LAKE	1B3-034	41-21'40"N	73-48'45"W	06NOV84
	BARRETT POND	1B3-051	41-26'04"N	73-44'25"W	06NOV84
	BEACON RESERVOIR	1B3-027	41-29'25"N	73-53'00"W	06NOV84
	BELFORT POND	1A2-065	43-55'39"N	75-19'42"W	21OCT84
	BELLOWS LAKE	1A2-031	43-10'45"N	74-27'45"W	31OCT84
	BIG OTTER LAKE	1A2-024	43-43'48"N	75-06'23"W	14OCT84
	BIG POND	1A3-010	44-17'15"N	73-33'20"W	08OCT84
	BLACK POND	1A1-037	44-09'00"N	74-35'30"W	13OCT84
	BLACK POND	1A1-071	44-26'21"N	74-17'38"W	11OCT84
	BLAKE FALLS RES	1A2-010	44-28'45"N	74-45'15"W	13OCT84
	BOYD POND	1A2-011	44-23'30"N	75-05'45"W	25OCT84
	BRANT LAKE	1A2-035	43-42'30"N	73-42'30"W	18OCT84
	BURNT HOPE LAKE	1B1-020	41-31'30"N	74-44'38"W	10NOV84
	BUTLER POND	1A3-027	43-22'15"N	73-44'15"W	03NOV84
	BUTTERFIELD LAKE	1A3-008	44-19'00"N	75-46'45"W	17OCT84
	BUTTERNUT POND	1A3-060	44-25'45"N	73-29'52"W	08OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	CARTER POND	1C3-017	43-09'50"N	73-25'15"W	03NOV84
	CAYUGA LAKE	1B3-001	42-45'00"N	76-45'00"W	15NOV84
	CEDAR RIVER FLOW	1A1-008	43-42'30"N	74-28'30"W	15OCT84
	CENTER POND	1A3-045	43-44'30"N	74-13'00"W	15OCT84
	CHENEY POND	1A3-042	43-52'40"N	74-09'45"W	15OCT84
	CHUB LAKE	1A2-052	43-15'30"N	74-31'50"W	31OCT84
	CLEAR POND	1A1-023	44-29'15"N	74-09'30"W	11OCT84
	CLEAR POND	1A2-008	44-33'20"N	74-46'30"W	13OCT84
	CLEAR POND	1A2-013	44-20'00"N	74-48'40"W	13OCT84
	COAN POND	1A3-026	43-24'20"N	75-58'30"W	17OCT84
	COD POND	1A2-038	43-31'00"N	74-08'30"W	30OCT84
	CONKLIN POND	1B3-018	41-43'04"N	74-38'30"W	10NOV84
	CONSTABLE POND	1A1-017	43-50'00"N	74-47'45"W	14OCT84
	CORK CENTER RESERVOIR	1A3-064	43-02'29"N	74-27'58"W	04NOV84
	CRANBERRY POND	1C2-048	42-44'40"N	73-26'00"W	04NOV84
	CRANE POND	1A2-059	43-51'10"N	73-39'10"W	18OCT84
	CROSSETT POND	1A3-022	43-30'00"N	73-35'00"W	03NOV84
	CRYSTAL LAKE	1A3-009	44-16'30"N	75-48'00"W	17OCT84
	CRYSTAL LAKE	1A3-061	43-39'22"N	73-44'35"W	18OCT84
	CURTIS LAKE	1A3-028	43-20'10"N	74-57'40"W	31OCT84
	DEBAR POND	1A1-068	44-37'25"N	74-11'46"W	11OCT84
	DEER POND	1A1-055	43-55'45"N	74-47'00"W	25OCT84
	DELTA RESERVOIR	1A3-030	43-17'30"N	75-26'15"W	17OCT84
	DRY CHANNEL POND	1A1-028	44-21'10"N	74-26'15"W	11OCT84
	DUCK LAKE	1A2-004	43-14'08"N	74-27'09"W	31OCT84
	EVERGREEN LAKE	1A1-004	43-55'00"N	75-01'00"W	25OCT84
	FEAGLES LAKE	1B3-022	41-36'15"N	75-02'50"W	15NOV84
	FISH PONDS (NORTHEAST)	1A2-037	43-32'50"N	74-03'40"W	30OCT84
	FORKED LAKE	1A1-056	43-54'00"N	74-35'00"W	16OCT84
	FORT POND	1D3-046	41-02'30"N	71-57'15"W	13NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	FOURTH LAKE (BISBY LAKES)	1A1-020	43-34'15"N	74-58'15"W	16OCT84
	GOOSE POND	1A1-018	43-47'00"N	74-54'00"W	14OCT84
	GOOSENECK POND	1A2-033	43-51'41"N	73-36'30"W	18OCT84
	GRASS POND	1A3-048	43-41'35"N	75-03'40"W	14OCT84
	GREEN POND	1A3-053	43-28'47"N	75-56'05"W	17OCT84
	GUILFORD LAKE	1B3-004	42-24'45"N	75-30'00"W	15NOV84
	GULL LAKES (SOUTH)	1A1-073	43-51'22"N	74-49'15"W	14OCT84
	HADLOCK POND	1A3-025	43-25'30"N	73-34'15"W	03NOV84
	HAMILTON LAKE	1A2-053	43-25'50"N	74-23'18"W	30OCT84
	HAWK POND	1A1-003	43-57'25"N	74-57'30"W	25OCT84
	HENDERSON LAKE	1A1-015	44-05'15"N	74-04'00"W	12OCT84
	HITCHCOCK LAKE	1A1-057	43-51'00"N	75-02'30"W	24OCT84
	HITCHENS POND	1A1-040	44-06'30"N	74-40'00"W	13OCT84
	HOLP POND	1B3-068	41-52'43"N	74-59'58"W	15NOV84
	HOOK POND	1D3-047	40-57'00"N	72-11'20"W	13NOV84
	HORSESHOE POND	1A2-032	43-49'45"N	73-48'30"W	18OCT84
	HUCKLEBERRY LAKE	1A2-056	43-47'47"N	75-15'00"W	24OCT84
	INDEPENDENCE LAKE	1A3-047	43-46'20"N	74-58'45"W	14OCT84
	INDIAN LAKE	1A3-011	44-08'30"N	75-27'10"W	17OCT84
	ISLAND POND	1B3-059	41-15'26"N	74-08'25"W	10NOV84
	JACKSON SUMMIT RESERVOIR	1A2-047	43-08'30"N	74-17'00"W	04NOV84
	JACOX POND	1B3-029	41-26'40"N	73-55'25"W	06NOV84
	JOCKS POND	1A1-031	44-17'30"N	74-40'00"W	13OCT84
	JOHN POND	1A1-039	44-06'45"N	74-45'50"W	13OCT84
	KEENAN POND	1A3-007	44-26'00"N	73-28'15"W	08OCT84
	KEENAN RESERVOIR	1A3-029	43-19'45"N	73-45'30"W	03NOV84
	KIAMESHA LAKE	1B3-020	41-40'30"N	74-40'00"W	10NOV84
	KIWASSA LAKE	1A1-033	44-17'45"N	74-09'30"W	13OCT84
	LAKE ALGONQUIN	1A2-040	43-23'30"N	74-17'45"W	30OCT84
	LAKE CLEAR OUTLET	1A1-030	44-20'50"N	74-15'45"W	12OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	LAKE DESOLATION	1A2-049	43-08'15"N	73-58'20"W	04NOV84
	LAKE FRANCES	1A2-006	44-41'45"N	74-19'30"W	11OCT84
	LAKE LORAINE	1A3-023	43-27'30"N	75-57'40"W	17OCT84
	LAKE METAUQUE	1B1-062	41-31'02"N	74-47'03"W	10NOV84
	LEDGE POND	1A1-041	44-05'40"N	73-39'55"W	18OCT84
	LILY POND	1A2-036	43-42'15"N	73-40'15"W	03NOV84
	LITTLE CLEAR POND	1A1-027	44-21'45"N	74-17'00"W	11OCT84
	LITTLE POND	1A2-064	44-11'00"N	73-34'35"W	08OCT84
	LITTLE ROUND POND	1A3-038	42-56'25"N	73-46'40"W	04NOV84
	LITTLE TUPPER LAKE	1A1-043	44-02'22"N	74-36'40"W	25OCT84
	LONG LAKE	1A1-044	44-02'30"N	74-22'00"W	15OCT84
	LONG LAKE	1A2-044	43-13'10"N	74-35'30"W	31OCT84
	LONG LAKE	1A2-063	44-09'48"N	75-12'06"W	24OCT84
	LONG POND	1A3-046	43-38'15"N	74-17'20"W	15OCT84
	LOST POND	1A1-032	44-16'30"N	74-29'15"W	13OCT84
	LOWER RESERVOIR	1A3-021	43-31'30"N	75-57'30"W	17OCT84
	LOWS LAKE	1A1-042	44-05'00"N	74-45'30"W	25OCT84
	MCDONALD POND	1A2-012	44-23'45"N	74-31'40"W	11OCT84
	MIDDLE FARMS POND	1D3-044	41-16'30"N	71-58'40"W	13NOV84
	MIDDLE POND	1A1-029	44-20'20"N	74-22'45"W	11OCT84
	MIDDLE SARANAC LAKE	1A1-074	44-15'37"N	74-16'00"W	13OCT84
	MIDDLE SOUTH POND	1A1-049	43-59'22"N	75-01'06"W	25OCT84
	MOREAU LAKE	1A3-031	43-14'00"N	73-42'45"W	03NOV84
	MOSHER PONDS (SOUTHERN)	1A2-021	43-56'00"N	75-04'15"W	24OCT84
	MOUNTAIN POND	1A1-025	44-28'30"N	74-16'30"W	11OCT84
	MT ARAB LAKE	1A1-064	44-11'18"N	74-36'03"W	13OCT84
	MUD LAKE	1A2-041	43-20'26"N	74-27'14"W	30OCT84
	MUD POND	1A1-047	44-01'00"N	74-25'20"W	15OCT84
	MUD POND	1A2-005	44-44'10"N	74-03'55"W	11OCT84
	NATE POND	1A3-001	43-51'30"N	74-05'30"W	15OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	NELSON LAKE	1A3-049	43-38'45"N	75-03'30"W	16OCT84
	NICKS POND	1A1-038	44-08'35"N	74-58'05"W	24OCT84
	NINE CORNER LAKE	1A2-046	43-11'45"N	74-33'00"W	31OCT84
	NO NAME(NO NAME LAKE)	1C3-018	42-46'10"N	73-32'50"W	04NOV84
	NORTH BRANCH LAKE	1A2-042	43-18'45"N	74-47'40"W	31OCT84
	OQUAGA LAKE	1B3-007	42-01'15"N	75-27'30"W	03NOV84
	OTTER LAKE	1A2-026	43-35'30"N	75-07'00"W	16OCT84
	OWEN POND	1A2-028	44-19'15"N	73-54'05"W	12OCT84
	OXBOW LAKE	1A2-039	43-26'30"N	74-29'00"W	30OCT84
	PANTHER POND	1A2-023	43-49'15"N	75-10'15"W	24OCT84
	PARADOX LAKE	1A1-070	43-53'00"N	73-42'30"W	18OCT84
	PARTLOW LAKE	1A1-046	44-00'15"N	74-50'00"W	25OCT84
	PAYNE LAKE	1A2-022	43-47'40"N	75-17'30"W	24OCT84
	PIERCEFIELD FLOW	1A1-035	44-13'45"N	74-33'00"W	13OCT84
	POCANTICO LAKE	1B3-064	41-07'22"N	73-50'00"W	06NOV84
	PORT RESERVOIR	1A3-032	43-05'15"N	74-21'30"W	04NOV84
	QUIVER POND	1A1-019	43-44'15"N	74-52'15"W	14OCT84
	RAVEN LAKE	1A1-016	43-55'45"N	75-02'00"W	25OCT84
	RICE RESERVOIR	1A3-058	43-05'37"N	74-20'18"W	04NOV84
	ROCK LAKE	1A1-050	43-58'00"N	74-52'00"W	25OCT84
	ROCK POND	1A3-066	43-37'50"N	74-18'12"W	15OCT84
	ROLLINS POND	1A1-069	44-18'45"N	74-24'50"W	12OCT84
	ROSS POND	1A3-044	43-47'40"N	74-08'45"W	15OCT84
	ROUND POND	1A1-065	44-07'29"N	73-44'01"W	18OCT84
	ROUND POND	1A3-051	43-21'09"N	73-40'37"W	03NOV84
	ROUND POND	1B1-002	41-56'20"N	74-35'15"W	15NOV84
	RUTLAND LAKE	1A3-013	43-57'05"N	75-47'45"W	17OCT84
	SACKETT LAKE	1B1-057	41-37'33"N	74-44'25"W	10NOV84
	SAGAMORE LAKE	1A1-059	43-46'00"N	74-37'30"W	16OCT84
	SEVENTH L.(FULTON CHAIN)	1A1-060	43-44'45"N	74-45'00"W	14OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	SILVER LAKE	1A1-024	44-30'30"N	73-52'30"W	12OCT84
	SILVER LAKE	1A1-034	44-13'30"N	74-49'30"W	13OCT84
	SILVER LAKE	1B3-055	42-19'34"N	74-10'05"W	15NOV84
	SMITH POND	1A2-015	44-15'00"N	75-13'25"W	17OCT84
	SMITH POND	1A3-017	43-42'35"N	73-48'00"W	18OCT84
	SNYDER LAKE	1A1-010	43-34'15"N	74-49'15"W	16OCT84
	SOLON POND	1B3-066	42-37'06"N	75-55'28"W	15NOV84
	SOUTH COLWELL POND	1A3-062	43-41'58"N	76-11'43"W	17OCT84
	SOUTH LAKE (EAST BRANCH)	1A3-065	43-30'54"N	74-53'32"W	16OCT84
	SPECTACLE POND	1A2-034	43-48'45"N	73-42'15"W	18OCT84
	ST. JOHN LAKE	1A2-002	43-26'30"N	74-03'40"W	30OCT84
	STAR LAKE	1A2-016	44-09'30"N	75-02'45"W	24OCT84
	STREETCAR POND	1A2-051	43-40'38"N	73-42'02"W	18OCT84
	STUMP POND	1B3-013	41-50'15"N	74-54'00"W	15NOV84
	SULLIVAN POND	1A3-018	43-38'00"N	73-49'10"W	03NOV84
	SUTTON POND	1A1-051	43-57'20"N	74-36'00"W	25OCT84
	TAYLOR POND	1A2-027	44-29'15"N	73-51'00"W	12OCT84
	THIRD LAKE (ESSEX CHAIN)	1A3-041	43-52'30"N	74-15'00"W	15OCT84
	TRIANGLE LAKE	1B3-003	42-32'00"N	74-12'15"W	15NOV84
	TROUT LAKE	1A2-054	43-20'48"N	74-42'50"W	31OCT84
	TROUT LAKE	1A2-058	44-21'47"N	75-16'08"W	24OCT84
	TROUT LAKE	1A3-020	43-32'30"N	73-42'15"W	03NOV84
	TROUT LAKE	1B3-025	41-35'10"N	74-40'50"W	10NOV84
	TWIN LAKES (EASTERN)	1A1-009	43-37'15"N	74-37'15"W	30OCT84
	TWIN PONDS (EASTERN)	1A2-001	43-40'20"N	74-10'20"W	30OCT84
	TWIN PONDS (EASTERN)	1A2-018	43-59'15"N	75-13'30"W	24OCT84
	TWIN PONDS (NORTHWESTERN)	1A2-057	44-42'24"N	74-20'33"W	11OCT84
	TYRRELL LAKE	1B3-057	41-45'25"N	73-44'58"W	06NOV84
	UNKNOWN POND	1A3-043	43-49'10"N	74-17'00"W	15OCT84
	VANDERWHACKER POND	1A1-067	43-57'28"N	74-00'10"W	12OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	WELLER POND	1A2-009	44-31'30"N	74-36'00"W	13OCT84
	WHITE LAKE	1A2-061	43-32'42"N	75-09'02"W	16OCT84
	WHITNEY LAKE	1A1-012	43-35'15"N	74-33'45"W	30OCT84
	WILMURT LAKE	1A1-014	43-25'45"N	74-43'30"W	30OCT84
	WIXON POND	1B3-032	41-23'45"N	73-44'05"W	06NOV84
	WOLF LAKE	1A1-061	43-37'45"N	74-39'15"W	30OCT84
	WOLF POND	1A1-021	44-39'00"N	74-03'30"W	11OCT84
	WOLF POND	1A1-053	43-57'36"N	73-55'48"W	12OCT84
	WOODHULL LAKE	1A1-066	43-35'30"N	74-59'13"W	16OCT84
	WOODMAN POND	1A3-039	42-51'15"N	75-34'10"W	15NOV84
	WOODS LAKE	1A2-045	43-15'10"N	74-19'00"W	31OCT84
	ZACK POND	1A3-040	43-56'00"N	74-11'00"W	15OCT84
NORTH CAROLINA	(NO NAME)	3A1-019	35-06'21"N	83-00'15"W	29NOV84
	(NO NAME)	3A2-002	36-26'41"N	80-55'48"W	29NOV84
	(NO NAME)	3A2-003	36-24'05"N	80-58'55"W	29NOV84
	(NO NAME)	3A2-008	35-16'38"N	83-39'16"W	29NOV84
	(NO NAME)	3A2-029	35-24'30"N	82-12'09"W	25NOV84
	APALACHIA LAKE	3A2-011	35-10'13"N	84-15'30"W	20NOV84
	BEAR CREEK RESERVOIR	3A2-032	35-14'25"N	83-03'42"W	25NOV84
	BURNETT RESERVOIR	3A3-006	35-40'00"N	82-20'20"W	21NOV84
	CASHIERS LAKE	3A1-014	35-06'25"N	83-06'03"W	25NOV84
	CEDAR CLIFF LAKE	3A2-031	35-15'15"N	83-05'45"W	25NOV84
	CHETOLA LAKE	3A2-004	36-08'16"N	81-40'20"W	21NOV84
	ENKA LAKE	3A1-006	35-32'00"N	82-39'20"W	21NOV84
	FONTANA LAKE	3A2-007	35-27'00"N	83-47'30"W	20NOV84
	FOREST LAKE	3A3-065	35-21'51"N	81-52'45"W	25NOV84
	HAMPTON LAKE	3A1-015	35-06'05"N	83-04'45"W	25NOV84
	HIWASSEE LAKE	3A2-055	35-09'45"N	84-10'00"W	20NOV84
	KANUGA LAKE	3A2-035	35-15'45"N	82-31'05"W	29NOV84
	LAKE ADGER	3A2-030	35-20'17"N	82-12'15"W	25NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NORTH CAROLINA (cont)	LAKE CHEOAH	3A1-004	35-27'00"N	83-55'45"W	20NOV84
	LAKE HOUSER	3A3-070	35-13'23"N	81-43'45"W	25NOV84
	LAKE JAMES	3A3-004	35-44'30"N	81-54'00"W	21NOV84
	LAKE LOGAN	3A1-010	35-25'00"N	82-55'40"W	29NOV84
	LAKE SEQUOYAH	3A2-038	35-03'45"N	83-13'15"W	25NOV84
	LAKE SUMMITT	3A2-036	35-13'30"N	82-25'00"W	29NOV84
	LAKE TAHOMA	3A3-066	35-43'30"N	82-05'00"W	21NOV84
	LAKE TOXAWAY	3A1-012	35-08'00"N	82-56'30"W	29NOV84
	LUPTIN LAKE	3A1-018	35-06'45"N	83-01'15"W	25NOV84
	NANTAHALA LAKE	3A2-009	35-11'00"N	83-40'00"W	29NOV84
	RHODHISS LAKE	3A3-056	35-47'05"N	81-27'30"W	21NOV84
	TANASEE CREEK RESERVOIR	3A2-033	35-12'47"N	83-00'00"W	25NOV84
	THE LAGOON	3A1-008	35-32'28"N	82-33'45"W	21NOV84
	THORPE LAKE	3A2-053	35-10'30"N	83-09'00"W	25NOV84
	WALTERS LAKE	3A2-006	35-41'35"N	83-02'45"W	29NOV84
PENNSYLVANIA	(NO NAME)	1B1-026	41-19'30"N	75-03'45"W	31OCT84
	(NO NAME)	1B1-032	41-18'25"N	74-59'15"W	31OCT84
	(NO NAME)	1B2-048	41-02'45"N	75-24'00"W	15NOV84
	(NO NAME)	1B3-015	41-47'20"N	75-38'15"W	15NOV84
	BASSETT POND	1B3-062	41-35'33"N	75-42'40"W	16NOV84
	BEAR CREEK LAKE	1B2-040	41-11'00"N	75-45'15"W	01NOV84
	BELMONT LAKE	1B2-051	41-46'36"N	75-26'30"W	03NOV84
	BOYLE POND	1B2-069	41-10'11"N	75-55'30"W	16NOV84
	BRADYS LAKE	1B1-041	41-10'00"N	75-31'45"W	01NOV84
	BRONSON POND	1B2-011	41-31'30"N	75-26'15"W	16NOV84
	BROWNS POND	1B3-014	41-48'50"N	76-35'00"W	12NOV84
	BRUCE LAKE	1B1-025	41-21'00"N	75-10'15"W	31OCT84
	COBEY POND	1B1-012	41-34'00"N	75-04'15"W	03NOV84
	CORD POND	1B3-021	41-39'10"N	75-51'00"W	16NOV84
	CRAFT POND	1B3-028	41-26'05"N	75-17'15"W	03NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
PENNSYLVANIA (cont)	CRESENT LAKE	1B2-049	41-04'15"N	75-23'10"W	06NOV84
	CRYSTAL LAKE	1B2-039	41-10'00"N	75-50'00"W	01NOV84
	CURTIS POND	1B2-062	41-32'08"N	75-22'40"W	07NOV84
	CURTIS RESERVOIR	1B2-019	41-22'55"N	75-30'15"W	07NOV84
	DEEP HOLLOW POND	1B2-027	41-15'20"N	75-47'40"W	07NOV84
	EAST STROUDSBURG RESERV.	1B3-041	41-04'00"N	75-10'00"W	01NOV84
	ELK LAKE	1B2-006	41-37'20"N	75-23'05"W	07NOV84
	ELSTONS POND	1B3-030	41-22'20"N	75-58'15"W	01NOV84
	FIRST POND	1B2-047	41-08'05"N	75-01'35"W	18NOV84
	GANOGA LAKE	1B1-010	41-21'30"N	76-19'15"W	12NOV84
	GLENBURN POND	1B3-026	41-31'00"N	75-43'45"W	16NOV84
	GOOSE POND	1B1-038	41-15'10"N	75-11'40"W	31OCT84
	GOULDSBORO LAKE	1B1-034	41-14'00"N	75-27'15"W	07NOV84
	GRASSY POND	1B2-025	41-16'45"N	76-09'20"W	12NOV84
	GRAVEL POND	1B1-037	41-13'40"N	75-15'20"W	31OCT84
	HALF MOON POND	1B2-016	41-26'35"N	75-27'30"W	07NOV84
	HANOVER RESERVOIR	1B2-037	41-10'20"N	75-59'20"W	01NOV84
	HARTLEY POND	1B3-019	41-39'30"N	75-42'30"W	16NOV84
	HEMLOCK LAKE	1B1-031	41-18'15"N	75-02'50"W	31OCT84
	HENRY LAKE	1B2-030	41-17'00"N	75-29'10"W	03NOV84
	HOADLEY POND	1B2-058	41-33'32"N	75-23'55"W	07NOV84
	INDIAN LAKE	1B2-070	41-11'20"N	75-40'03"W	01NOV84
	INDIAN MOUNTAIN LAKE	1B1-050	41-00'19"N	75-30'20"W	15NOV84
	IVAN SWAMP	1B2-046	41-08'26"N	75-09'14"W	16NOV84
	KIZER POND	1B2-066	41-27'21"N	75-27'38"W	16NOV84
	LAKE EARNEST	1B1-030	41-17'20"N	75-09'35"W	31OCT84
	LAKE GILES	1B1-022	41-22'30"N	75-05'40"W	31OCT84
	LAKE HENRY	1B2-017	41-27'00"N	75-26'50"W	16NOV84
	LAKE JAMIE	1B1-036	41-14'30"N	75-17'15"W	07NOV84
	LAKE JOHN	1B1-006	41-25'50"N	76-16'15"W	12NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
PENNSYLVANIA (cont)	LAKE LODORE	1B2-009	41-34'10"N	75-23'30"W	07NOV84
	LAKE MASKENOZHA	1B2-064	41-11'18"N	74'59'15"W	18NOV84
	LAKE MINISINK	1B1-067	41-12'57"N	75-03'13"W	15NOV84
	LAKE PAUPACK	1B1-024	41-19'30"N	75-15'30"W	31OCT84
	LITTLE BUTLER LAKE	1B3-012	41-51'45"N	75-37'40"W	15NOV84
	LITTLE ELK LAKE	1B3-017	41-45'30"N	75-56'30"W	12NOV84
	LITTLE KEEN POND	1B2-010	41-35'45"N	75-22'45"W	07NOV84
	LOG TAVERN POND	1B1-033	41-18'40"N	74-55'45"W	15NOV84
	LOPEZ POND	1B1-007	41-23'50"N	76-23'28"W	12NOV84
	LOWER LAKE (WEST)	1B1-066	41-18'52"N	75-13'53"W	31OCT84
	MANZANEDO LAKE	1B2-045	41-07'00"N	75-11'45"W	01NOV84
	MAPLE LAKE	1B2-022	41-19'45"N	75-35'00"W	07NOV84
	MARCEL LAKE	1B1-040	41-15'20"N	74-57'15"W	31OCT84
	MEADOW RUN PO.(LG.NORTH)	1B2-055	41-13'29"N	75-40'02"W	01NOV84
	MEADOW RUN PONDS (SOUTH)	1B2-034	41-12'55"N	75-40'15"W	01NOV84
	MEMORY LAKE	1B1-028	41-18'40"N	75-25'45"W	03NOV84
	MILL CREEK RESERVOIR	1B2-028	41-15'45"N	75-45'00"W	16NOV84
	MILLPOND NO. 1	1B1-064	41-10'47"N	75-24'39"W	07NOV84
	MOOSIC LAKES (EASTERN)	1B2-015	41-26'10"N	75-30'45"W	07NOV84
	MUD POND	1B1-027	41-21'00"N	74-54'20"W	31OCT84
	MUD POND	1B2-007	41-38'05"N	75-22'15"W	07NOV84
	MUD POND	1B2-059	41-23'01"N	75-31'35"W	07NOV84
	NO NAME(ALLENS LAKE)	1B1-003	41-40'10"N	76-37'15"W	12NOV84
	NO NAME(EAST LAKE)	1B1-044	41-08'30"N	75-32'30"W	01NOV84
	NO NAME(FOREST LAKE)	1B1-070	41-30'47"N	75-04'17"W	03NOV84
	NO NAME(GARDNERS DAM)	1B2-056	41-16'15"N	75-45'47"W	16NOV84
	NO NAME(HIAWATHA LAKE)	1B2-065	41-07'33"N	75-10'52"W	01NOV84
	NO NAME(HIDDEN LAKE)	1B2-031	41-13'00"N	76-12'00"W	01NOV84
	NO NAME(LAKE ALEEDA)	1B2-033	41-14'45"N	75-43'15"W	16NOV84
	NO NAME(LAKE IN THE WOODS)	1B1-059	41-15'23"N	75-15'29"W	31OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
PENNSYLVANIA (cont)	NO NAME(LAKE JAMIE)	1B3-036	41-15'00"N	74-54'25"W	31OCT84
	NO NAME(LAKE PINCREST)	1B2-036	41-11'00"N	76-14'40"W	01NOV84
	NO NAME(LAKE SINCA)	1B1-058	41-06'04"N	75-35'47"W	01NOV84
	NO NAME(SNOWFLAKE LAKE)	1B3-053	41-54'18"N	75-24'37"W	03NOV84
	NO NAME(SOUTH MTN. LAKE)	1B1-004	41-37'30"N	76-45'20"W	12NOV84
	NO NAME(ST. TIKHONS DAM)	1B2-013	41-30'45"N	75-24'00"W	16NOV84
	NO NAME(STAIRWAY LAKE)	1B1-069	41-24'45"N	74-47'59"W	10NOV84
	NO NAME(SWACKHAMMER LAKE)	1B2-008	41-33'15"N	75-26'35"W	07NOV84
	NO NAME(WILSON CREEK DAM)	1B1-029	41-17'30"N	75-14'20"W	31OCT84
	NORTH LAKE	1B2-053	41-17'30"N	76-08'39"W	16NOV84
	ORSON POND	1B2-001	41-48'45"N	75-26'40"W	03NOV84
	PENN LAKE	1B1-043	41-06'45"N	75-46'10"W	01NOV84
	PLACID LAKE	1B1-048	41-01'40"N	75-36'45"W	01NOV84
	POCONO SUMMIT LAKE	1B1-046	41-07'15"N	75-23'10"W	06NOV84
	PORTERS LAKE	1B1-039	41-15'05"N	75-03'30"W	15NOV84
	POYNTELLE LAKE	1B2-002	41-49'17"N	75-24'38"W	03NOV84
	ROCK HILL POND	1B1-055	41-18'49"N	75-00'58"W	31OCT84
	ROCK LAKE	1B2-005	41-46'20"N	75-19'30"W	03NOV84
	ROUSE POND	1B1-008	41-25'35"N	76-17'15"W	12NOV84
	SCHMITTHENNER LAKE	1B1-063	41-26'15"N	76-14'38"W	12NOV84
	SECOND POND	1B2-042	41-08'45"N	75-01'45"W	18NOV84
	SLY LAKE	1B3-060	41-49'25"N	75-20'14"W	03NOV84
	SUNRISE LAKE	1B1-068	41-19'10"N	74-57'37"W	31OCT84
	SWIFTWATER LAKE	1B2-044	41-05'53"N	75-16'39"W	01NOV84
	TAMARACK LAKE	1B2-054	41-15'16"N	75-29'34"W	03NOV84
	TELSHAW POND	1B2-012	41-31'00"N	75-25'30"W	16NOV84
	THE ICE PONDS (EAST)	1B2-038	41-08'35"N	75-56'15"W	01NOV84
	TINKWIG LAKE	1B1-015	41-30'00"N	75-07'35"W	03NOV84
	TROUT LAKE	1B3-043	41-00'15"N	75-20'30"W	01NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
PENNSYLVANIA (cont)	TWIN LAKES (BRINK P)	1B1-023	41-23'00"N	74-54'15"W	31OCT84
	WILKINSON LAKE	1B1-042	41-11'20"N	75-10'05"W	16NOV84
RHODE ISLAND	ARNOLD MILLS RES	1D3-026	41-59'00"N	71-23'45"W	04NOV84
	ASHVILLE POND	1D1-065	41-30'03"N	71-45'23"W	04NOV84
	FLAT RIVER RES. (EAST ARM)	1D2-085	41-41'01"N	71-36'00"W	04NOV84
	KING POND	1D2-069	41-46'22"N	71-39'38"W	04NOV84
	LAKE MISHNOCK	1D1-066	41-39'14"N	71-35'29"W	04NOV84
	LARKIN POND	1D1-059	41-28'12"N	71-33'30"W	04NOV84
	ROUND POND	1D1-067	41-58'17"N	71-46'20"W	08NOV84
	SCHOOL HOUSE POND	1D1-027	41-24'00"N	71-40'00"W	04NOV84
	SECRET LAKE	1D1-022	41-33'15"N	71-28'45"W	04NOV84
	SPRING GROVE POND	1D2-049	41-54'35"N	71-39'00"W	04NOV84
	THE RESERVOIR	1D1-024	41-32'25"N	71-31'30"W	04NOV84
	TIOGUE LAKE	1D2-050	41-40'45"N	71-33'00"W	04NOV84
	TIPPECANSETT POND	1D1-021	41-35'50"N	71-47'00"W	04NOV84
	WATERMAN POND	1D1-019	41-42'50"N	71-43'45"W	04NOV84
	WILSON RESERVOIR	1D1-018	41-58'10"N	71-43'45"W	08NOV84
SOUTH CAROLINA	(NO NAME)	3A2-044	34-51'58"N	83-06'11"W	24NOV84
	(NO NAME)	3A3-011	35-05'15"N	81-44'35"W	25NOV84
	(NO NAME)	3A3-012	34-57'05"N	82-23'37"W	29NOV84
	(NO NAME)	3A3-082	34-32'00"N	82-23'00"W	29NOV84
	(NO NAME)	3A3-084	35-05'42"N	81-44'20"W	25NOV84
	BOYD MILLPOND	3A3-074	34-27'30"N	82-12'30"W	29NOV84
	HARPER POND	3A2-048	34-39'13"N	83-11'28"W	24NOV84
	HARTWELL LAKE	3A3-053	34-22'30"N	82-50'30"W	27NOV84
	LAKE JOCASSEE	3A2-039	34-58'31"N	82-56'16"W	29NOV84
	LAKE LANIER	3A3-009	35-11'40"N	82-14'05"W	25NOV84
	LAKE WILLIAM C. BOWEN	3A3-072	35-06'30"N	82'03'00"W	25NOV84
	PINNACLE LAKE	3A2-042	35-01'45"N	82-41'50"W	29NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
SOUTH CAROLINA (cont)	TANKERSLEY LAKE	3A2-043	35-06'05"N	82-32'48"W	29NOV84
	YONAH LAKE	3A2-045	34-41'19"N	83-20'19"W	24NOV84
TENNESSEE	CALDERWOOD LAKE	3A1-002	35-29'45"N	83-58'00"W	20NOV84
	INDIAN BOUNDARY LAKE	3A1-005	35-23'52"N	84-06'50"W	20NOV84
	LAKE IN THE SKY	3A2-005	35-39'15"N	83-54'28"W	20NOV84
	LAKE OCOEE	3A2-012	35-05'42"N	84-36'59"W	20NOV84
	LAUREL LAKE	3A2-059	35-40'15"N	83-47'52"W	20NOV84
	WILBUR LAKE	3A3-058	36-20'17"N	82-07'05"W	29NOV84
VERMONT	(NO NAME)	1C3-059	44-32'06"N	73-05'52"W	29OCT84
	BEAN POND	1C1-081	44-41'50"N	72-05'15"W	29OCT84
	BERLIN POND	1C3-022	44-11'15"N	72-35'15"W	25OCT84
	BREESE POND	1C3-014	43-42'50"N	73-13'00"W	03NOV84
	CLARK POND	1C1-063	44-38'40"N	72-12'15"W	29OCT84
	DANIELS POND	1C1-062	44-40'30"N	72-15'40"W	29OCT84
	DERBY POND	1C3-009	44-57'00"N	72-07'00"W	18OCT84
	ECHO POND	1C1-061	44-51'40"N	72-00'00"W	29OCT84
	FERN LAKE	1C1-059	43-52'00"N	73-04'15"W	03NOV84
	FOSTERS POND	1C2-019	44-19'45"N	72-12'45"W	25OCT84
	GILLETT POND	1C3-012	44-21'15"N	72-57'45"W	29OCT84
	GREAT AVERILL POND	1C1-060	44-59'00"N	71-42'00"W	18OCT84
	HIDDEN LAKE	1C1-069	42-52'50"N	72-43'10"W	06NOV84
	KETTLE POND	1C3-064	44-17'40"N	72-19'08"W	25OCT84
	LAKE PARAN	1C3-066	42-55'57"N	73-14'00"W	04NOV84
	LAKE ST. CATHERINE	1C3-072	43-27'30"N	73-12'30"W	03NOV84
	LEVI POND	1C2-070	44-16'00"N	72-13'40"W	25OCT84
	LITTLE ELMORE POND	1C1-056	44-29'45"N	72-31'50"W	29OCT84
	LOWELL LAKE	1C1-064	43-13'30"N	72-45'45"W	23OCT84
	MUD POND	1C3-021	44-23'40"N	72-23'15"W	29OCT84
	NEAL POND	1C3-024	44-29'30"N	71-41'30"W	25OCT84
	SADAWGA LAKE	1C3-031	42-47'00"N	72-52'30"W	06NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
VERMONT (cont)	SALEM POND	1C3-051	44-55'47"N	72-06'17"W	18OCT84
	SHERMAN RESERVOIR	1C2-052	42-44'30"N	72-55'35"W	07NOV84
	ST ALBANS RES (SO. PART)	1C3-011	44-45'30"N	73-03'50"W	29OCT84
	SUNRISE LAKE	1C3-013	43-45'38"N	73-15'35"W	03NOV84
	THE POGUE	1C2-021	43-38'00"N	72-32'35"W	23OCT84
	UNKNOWN POND	1C2-006	44-39'55"N	71-43'22"W	25OCT84
	WALKER POND	1C3-065	43-44'33"N	73-08'27"W	03NOV84
VIRGINIA	CLAYTOR LAKE	3A3-087	37-03'45"N	80'36'30"W	21NOV84
	FAIRY STONE LAKE	3A2-001	36-48'04"N	80-06'37"W	21NOV84
	SMITH MTN LAKE	3A3-092	37-02'30"N	79-35'00"W	21NOV84
	TIMBER LAKE	3A3-001	37-19'00"N	79-16'15"W	21NOV84
WISCONSIN	(NO NAME)	2C1-039	45-29'20"N	89-25'30"W	29OCT84
	(NO NAME)	2C1-044	45-25'15"N	89-22'10"W	08NOV84
	(NO NAME)	2C1-059	46-01'22"N	89-42'39"W	30OCT84
	(NO NAME)	2C2-007	46-09'55"N	89-45'35"W	06NOV84
	(NO NAME)	2C2-029	45-56'05"N	89-54'55"W	01NOV84
	(NO NAME)	2D1-009	46-22'38"N	91-36'25"W	12NOV84
	(NO NAME)	2D1-020	46-22'05"N	91-36'55"W	12NOV84
	(NO NAME)	2D1-038	46-14'10"N	91-46'52"W	06NOV84
	(NO NAME)	2D1-049	46-11'02"N	91-42'20"W	12NOV84
	(NO NAME)	2D1-068	46-15'14"N	91-40'09"W	08NOV84
	(NO NAME)	2D1-088	46-22'14"N	91-36'29"W	05NOV84
	(NO NAME)	2D2-017	45-58'37"N	91-49'50"W	04NOV84
	(NO NAME)	2D2-022	45-55'45"N	92-03'33"W	03NOV84
	(NO NAME)	2D2-026	45-46'50"N	91-34'17"W	04NOV84
	(NO NAME)	2D2-027	45-43'47"N	91-49'55"W	04NOV84
	(NO NAME)	2D2-030	45-44'44"N	91-34'40"W	04NOV84
	(NO NAME)	2D2-035	45-42'21"N	91-36'25"W	04NOV84
	(NO NAME)	2D2-036	45-41'32"N	91-35'22"W	04NOV84
	(NO NAME)	2D2-041	45-41'14"N	92-01'26"W	03NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	(NO NAME)	2D2-051	45-45'13"N	92-25'47"W	28OCT84
	(NO NAME)	2D2-062	45-57'00"N	92-04'45"W	03NOV84
	(NO NAME)	2D2-065	45-44'42"N	91-35'51"W	04NOV84
	(NO NAME)	2D2-070	45-38'35"N	92-01'09"W	03NOV84
	(NO NAME)	2D2-074	45-29'26"N	92-05'08"W	03NOV84
	ALDER LAKE	2D2-024	45-46'52"N	91-45'45"W	04NOV84
	ALEXANDER LAKE	2D1-072	46-13'06"N	91-40'50"W	07NOV84
	ALICE LAKE	2C1-028	45-48'10"N	89-44'00"W	01NOV84
	ALVA LAKE	2C1-032	45-42'30"N	89-35'35"W	27OCT84
	ANDERSON LAKE	2D3-042	45-12'15"N	90-35'23"W	07NOV84
	BASS LAKE	2C2-039	45-42'55"N	89-23'05"W	29OCT84
	BASS LAKE	2C3-004	46-17'10"N	90-02'45"W	06NOV84
	BASS LAKE	2D1-030	46-13'00"N	91-51'15"W	06NOV84
	BASS LAKE	2D2-057	45-36'40"N	91-49'56"W	07NOV84
	BEAR LAKE	2B1-070	46-29'29"N	91-18'11"W	05NOV84
	BEARSKIN LAKE	2C3-037	45-44'00"N	89-41'00"W	27OCT84
	BEAUREGARD LAKE	2D1-025	46'20'30"N	91-35'30"W	07NOV84
	BEGLINGER LAKE	2D1-067	46-13'13"N	91-50'54"W	06NOV84
	BENA LAKE	2C3-005	46-17'30"N	89-53'55"W	06NOV84
	BIG DONAHUE LAKE	2C2-014	46-10'16"N	89-18'47"W	04NOV84
	BIG GIBSON LAKE	2C3-018	46-08'15"N	89-33'15"W	06NOV84
	BIG ROUND LAKE	2D3-053	45-31'34"N	92-18'00"W	03NOV84
	BIRCH LAKE	2C1-045	45-21'35"N	89-13'20"W	05NOV84
	BLACK FOX LAKE	2D1-022	46-21'45"N	91-36'38"W	05NOV84
	BLUEGILL LAKE	2D1-056	46-12'40"N	91-51'38"W	06NOV84
	BOBS LAKE	2C1-033	45-41'48"N	89-32'05"W	29OCT84
	BOG LAKE	2B3-060	46-29'47"N	91-19'38"W	05NOV84
	BOLIN LAKE	2C3-020	46-05'07"N	89-51'05"W	06NOV84
	BOOT LAKE	2D1-063	46-20'18"N	91-37'48"W	05NOV84
	BORTH LAKE	2C1-049	45-17'00"N	89-10'07"W	05NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	BRAGONIER LAKE	2C2-032	45-54'30"N	89-24'20"W	30OCT84
	BRICHER LAKE	2D2-069	45-57'54"N	92-20'35"W	28OCT84
	BUCK LAKE	2C1-038	45-35'30"N	89-25'00"W	08NOV84
	BUFF LAKE	2D2-055	45-45'18"N	91-29'24"W	04NOV84
	CAMTHOOK LAKE	2B2-001	46-28'22"N	91-21'20"W	05NOV84
	CAP HENRY LAKE	2C2-026	46-00'45"N	90-01'15"W	07NOV84
	CARLIN LAKE	2C2-005	46-12'00"N	89-46'35"W	06NOV84
	CEDAR LAKE	2C3-008	46-12'30"N	89-57'15"W	06NOV84
	CHAIN LAKES (NORTHWEST)	2D1-048	46-11'55"N	91-44'20"W	12NOV84
	CHARNLEY LAKE	2C2-025	46-01'15"N	90-09'00"W	07NOV84
	CHENEY LAKE	2D1-076	46-22'54"N	91-42'02"W	05NOV84
	CHICKAREE LAKE	2C1-026	45-54'25"N	89-21'30"W	30OCT84
	CHIPPANAZIE LAKE	2D3-062	46-02'21"N	91-33'34"W	04NOV84
	CLEAR LAKE	2C3-043	45-32'00"N	89-43'25"W	29OCT84
	COCHRAM LAKE	2C3-024	45-57'52"N	90-06'30"W	07NOV84
	COFFEE LAKE	2D1-004	46-27'28"N	91-43'27"W	07NOV84
	COLUMBUS LAKE	2C3-033	45-50'15"N	89-15'00"W	31OCT84
	CRANBERRY LAKE	2D2-046	45-33'33"N	92-04'56"W	03NOV84
	CRAWFORD LAKE	2C2-056	45-25'53"N	88-51'26"W	05NOV84
	CRESCENT LAKE	2C3-057	45-36'08"N	89-31'20"W	08OCT84
	CROOKED LAKE	2D1-045	46-12'00"N	91-39'00"W	12NOV84
	DEEP LAKE	2B1-016	46-29'37"N	91-14'30"W	06NOV84
	DEER LAKE	2C3-035	45-49'10"N	89-16'45"W	31OCT84
	DEER LAKE	2D1-001	46-29'43"N	91-42'50"W	08NOV84
	DEER PRINT LAKE	2D1-055	46-21'35"N	91-37'09"W	05NOV84
	DIKE 4&5 FLOWAGE	2D3-029	45-50'39"N	92-39'37"W	28OCT84
	EAGLE LAKE	2C1-024	46-01'55"N	89-49'35"W	06NOV84
	EAGLE LAKE	2C3-056	45-56'00"N	89-12'30"W	31OCT84
	EDITH LAKE	2C1-017	46-05'15"N	89-42'25"W	06NOV84
	ELM LAKE	2C3-038	45-46'10"N	89-03'30"W	10OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	ERWIN LAKE	2C3-016	46-09'50"N	89-26'55"W	04NOV84
	EUGENE LAKE	2C3-046	45-28'05"N	88-40'00"W	05NOV84
	EVELYN LAKE	2D2-006	46-09'15"N	91-02'00"W	01NOV84
	FANNY LAKE	2C3-060	45-16'03"N	88-39'58"W	05NOV84
	FEELY LAKE	2C3-013	46-10'00"N	90-07'10"W	07NOV84
	FINGER LAKE	2B1-012	46-30'45'N	91-16'10"W	06NOV84
	FIREFLY LAKE	2C1-019	45-59'57"N	89-38'00"W	30OCT84
	FLAT LAKE	2D1-084	46-19'30"N	91-43'53"W	08NOV84
	FOUR DUCKS LAKE	2C2-044	45-53'40"N	88-59'15"W	10OCT84
	GAME LAKE	2C1-058	45-19'12"N	89-05'25"W	05NOV84
	GANDER LAKE	2D1-061	46-27'15"N	91-43'45"W	07NOV84
	GARTH LAKE	2C1-030	45-45'45"N	89-45'00"W	01NOV84
	GERBICK LAKE	2C2-046	45-27'35"N	89-36'05"W	08OCT84
	GOOSE LAKE	2D2-048	45-18'22"N	91-21'08"W	07NOV84
	GROSS LAKE	2C1-055	45-34'43"N	89-26'05"W	08NOV84
	GULL LAKE	2D2-016	45-59'22"N	91-44'59"W	04NOV84
	GUNLOCK LAKE	2C3-029	45-54'50"N	89-49'15"W	07NOV84
	HALFWAY LAKE	2D1-037	46-13'00"N	91-48'15"W	06NOV84
	HAPPLES LAKE	2B2-099	46-28'49"N	91-22'08"W	05NOV84
	HARMON LAKE	2D2-025	45-46'42"N	91-39'50"W	04NOV84
	HARRIET LAKE	2D1-081	46-13'07"N	91-47'30"W	06NOV84
	HAUGEN LAKE	2D1-042	46-13'22"N	91-39'55"W	07NOV84
	HAY LAKE	2B1-057	46-28'46"N	91-17'09"W	05NOV84
	HEADQUARTERS LAKE	2D3-035	45-36'05"N	87-57'37"W	25OCT84
	HERON LAKE	2D3-070	45-44'43"N	91-29'18"W	04NOV84
	HIAWATHA LAKE	2C3-015	46-11'20"N	89-49'50"W	06NOV84
	HIGH LAKE	2C1-042	45-25'30"N	89-32'00"W	29OCT84
	HIGH LIFE LAKE	2D1-010	46-22'27"N	91-34'40"W	13NOV84
	HINDU LAKE	2C3-047	45-22'30"N	88-59'07"W	05NOV84
	HONEYSUCKLE LAKE	2C1-016	45-57'45"N	89-21'35"W	30OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	HORSEHEAD LAKE	2C2-004	46-14'00"N	89-43'00"W	09OCT84
	HORSESHOE LAKE	2C2-047	45-18'45"N	89-37'50"W	29OCT84
	ISLAND LAKE	2B1-010	46-32'18"N	91-18'20"W	06NOV84
	ISLAND LAKE	2D1-052	46-21'12"N	91-46'04"W	05NOV84
	JOEL FLOWAGE	2D3-039	45-23'29"N	92-13'02"W	03NOV84
	JOHN LAKE	2C1-007	46-13'45"N	89-38'55"W	09OCT84
	JUNGLE LAKE	2C2-050	45-27'15"N	88-50'00"W	05NOV84
	KASOMO LAKE	2C2-030	45-57'05"N	89-31'50"W	31OCT84
	KELLEYS LAKE	2D3-059	45-36'59"N	92-08'50"W	03NOV84
	KINNY LAKE	2D2-067	45-40'57"N	92-00'49"W	03NOV84
	KNIFE LAKE	2C2-052	46-13'25"N	89-40'04"W	09OCT84
	LAKE CLARA	2C2-058	45-30'44"N	89-34'15"W	08OCT84
	LAKE DORIS	2C1-040	45-26'25"N	89-29'10"W	29OCT84
	LAKE LAURA	2C3-021	46-03'30"N	89-26'15"W	09OCT84
	LAKE LUCERNE	2C3-044	45-31'45"N	88-51'00"W	05NOV84
	LAKE MARIE	2C2-040	45-47'20"N	89-54'35"W	01NOV84
	LAKE NINETEEN	2D3-057	45-14'27"N	90-32'10"W	07NOV84
	LAKE NOKOMIS	2C3-041	45-33'15"N	89-44'00"W	07NOV84
	LAKE PLEASANT	2C1-014	46-06'05"N	89-13'35"W	04NOV84
	LAKE RUTH	2B2-005	46-30'15"N	91-25'30"W	05NOV84
	LAKE THIRTY	2D2-054	45-34'50"N	91-54'04"W	07NOV84
	LESTER LAKE	2B1-013	46-30'00"N	91-18'20"W	05NOV84
	LITTLE BASS LAKE	2C1-027	45-51'45"N	89-36'40"W	01NOV84
	LITTLE JOHN JR LAKE	2C1-018	46-00'15"N	89-38'20"W	30OCT84
	LITTLE PAPOOSE LAKE	2C3-059	46-11'03"N	89-49'15"W	06NOV84
	LITTLE PINE LAKE	2D2-082	45-17'02"N	91-28'57"W	07NOV84
	LITTLE SAND LAKE	2C2-049	45-28'15"N	88-55'15"W	08NOV84
	LITTLE SPIDER LAKE	2C2-036	45-45'40"N	89-25'55"W	29OCT84
	LITTLE ST GERMAIN LAKE	2C3-030	45-55'35"N	89-27'00"W	31OCT84
	LITTLE TWIN LAKE	2C3-049	45-21'40"N	88-54'05"W	05NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	LOGGER LAKE	2D2-071	45-14'21"N	91-22'50"W	07NOV84
	LONG INTERLAKEN LAKE	2C2-028	45-57'45"N	89-54'00"W	01NOV84
	LONG LAKE	2B1-023	46-39'43"N	91-03'15"W	01NOV84
	LONG LAKE	2D1-077	46-20'08"N	91-46'49"W	12NOV84
	LONG LAKE (NORTH END)	2C2-034	45-47'37"N	89-29'35"W	27OCT84
	LOON LAKE	2B1-005	46-34'15"N	91-18'45"W	06NOV84
	LOON LAKE	2D2-047	45-28'10"N	92-07'43"W	03NOV84
	LOON LAKE	2D2-049	45-14'48"N	91-28'00"W	07NOV84
	LOON LAKE	2D2-064	45-41'07"N	91-36'53"W	04NOV84
	LOST LAKE	2C2-037	45-45'05"N	89-24'40"W	29OCT84
	LOST LAKE	2C2-038	45-46'10"N	89-19'10"W	31OCT84
	LOST LAKE	2D2-076	45-43'01"N	91-50'54"W	04NOV84
	LOWER HOLLY LAKE	2D3-060	45-50'28"N	91-28'08"W	04NOV84
	LOWER KAUBASHINE LAKE	2C3-034	45-48'35"N	89-45'00"W	01NOV84
	LOWLAND LAKE	2D2-050	45-12'24"N	91-21'44"W	07NOV84
	LUND LAKE	2D1-065	46-19'05"N	91-34'45"W	07NOV84
	MCGRATH LAKE	2C1-029	45-47'30"N	89-38'40"W	01NOV84
	METZGER LAKE	2D1-017	46-19'08"N	91-41'17"W	05NOV84
	MIDDLE SUGARBUSH LAKE	2C3-025	46-01'35"N	89-53'45"W	07NOV84
	MIDGET LAKE	2C2-048	45-30'00"N	88-47'40"W	05NOV84
	MILL LAKE	2C2-035	45-48'00"N	89-19'30"W	31OCT84
	MILLER LAKE	2C1-060	45-49'14"N	89-36'11"W	01NOV84
	MINNOW LAKE	2C3-051	45-48'38"N	89-16'31"W	31OCT84
	MINONK LAKE	2C2-003	46-15'00"N	89-46'20"W	06NOV84
	MIRROR LAKE	2D1-026	46-21'25"N	91-34'45"W	13NOV84
	MOODY LAKE	2D2-068	45-45'43"N	91-44'42"W	04NOV84
	MOOSE EAR LAKE	2D3-040	45-19'50"N	91-34'24"W	07NOV84
	MUD LAKE	2C2-045	45-31'00"N	89-33'28"W	08OCT84
	MUD MINNOW LAKE	2C2-042	45-52'45"N	89-15'30"W	31OCT84
	MULLENHOFF LAKE	2B2-077	46-32'14"N	91-24'08"W	05NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	MULLIGAN LAKE	2D1-041	46-12'30"N	91-41'40"W	12NOV84
	MUSKELLUNGE LAKE	2C2-031	45-57'00"N	89-22'45"W	30OCT84
	MUSKESIN LAKE	2C3-052	46-01'06"N	89-54'48"W	07NOV84
	MUSKIE LAKE	2C1-031	45-44'00"N	89-38'15"W	27OCT84
	MUSKRAT LAKE	2D1-012	46-20'45"N	91-45'15"W	12NOV84
	NELLIE LAKE	2C2-019	46-05'45"N	89-35'00"W	09OCT84
	NEWBOLD LAKE	2C1-051	45-42'23"N	89-33'12"W	29OCT84
	NIOBE LAKE	2D3-051	45-07'20"N	88-54'14"W	05NOV84
	NORTHEAST LAKE	2D3-020	46-16'10"N	91-12'30"W	01NOV84
	NOSEEUM LAKE	2C2-006	46-11'20"N	89-49'15"W	06NOV84
	OAK LAKE	2D2-060	45-47'00"N	91-46'17"W	04NOV84
	OSCEOLA LAKE	2C1-013	4[illegible]-07'32"N	89-19'02"W	06NOV84
	PARTRIDGE LAKE	2C1-046	45-20'45"N	89-16'30"W	08NOV84
	PERCH LAKE	2B1-020	46-47'45"N	91-05'40"W	01NOV84
	PERCH LAKE	2C1-054	46-08'46"N	89-15'00"W	04NOV84
	PERCH LAKE	2D3-065	45-22'19"N	87-59'19"W	25OCT84
	PHANTOM LAKE	2B1-015	46-29'30"N	91-17'45"W	05NOV84
	PICKEREL LAKE	2D2-038	45-37'47"N	91-36'00"W	07NOV84
	PIKE LAKE	2D2-072	45-49'53"N	92-17'28"W	28OCT84
	PINE LAKE	2C2-054	45-49'29"N	89-55'24"W	01NOV84
	PINE LAKE	2D1-082	46-30'29"N	91-39'10"W	07NOV84
	PLYMOUTH LAKE	2C1-053	46-02'26"N	88-59'21"W	10OCT84
	PRESQUE ISLE LAKE	2C3-009	46-13'30"N	89-47'00"W	06NOV84
	PRUNE LAKE	2C1-035	45-37'20"N	89-30'20"W	08OCT84
	QUARTZ LAKE	2C2-043	45-56'55"N	88-57'30"W	10OCT84
	RAINBOW FLOWAGE (S. END)	2C2-033	45-49'30"N	89-29'15"W	29OCT84
	RAINY LAKE	2D2-079	46-03'36"N	91-43'27"W	04NOV84
	RICHARDSON LAKE	2B2-075	46-32'22"N	91-27'51"W	05NOV84
	ROACH LAKE	2C3-026	45-57'37"N	89-37'15"W	30OCT84
	ROCK LAKE	2D1-018	46-20'35"N	91-37'00"W	05NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	ROGER LAKE	2B2-074	46-31'34"N	91-25'24"W	05NOV84
	ROUND LAKE	2D2-053	45-53'41"N	92-12'29"W	03NOV84
	RUDOLPH LAKE	2C1-056	46-12'30"N	89-39'33"W	09OCT84
	RUSSET LAKE	2C1-008	46-11'50"N	89-36'30"W	09OCT84
	SAWMILL LAKE	2B1-019	46-28'50"N	91-14'45"W	06NOV84
	SAWMILL LAKE	2D2-031	45-45'12"N	91-33'22"W	04NOV84
	SETTING LAKE	2C3-050	45-15'50"N	88-41'25"W	05NOV84
	SEVEN ISLAND LAKE	2C1-043	45-25'30"N	89-28'00"W	29OCT84
	SHALLOW LAKE	2D2-033	45-41'00"N	91-52'54"W	04NOV84
	SHALLOW POND	2C2-053	45-46'29"N	89-28'39"W	29OCT84
	SILVER LAKE	2C3-054	45-28'23"N	89-12'07"W	05NOV84
	SIME LAKE	2C2-018	46-09'30"N	89-31'15"W	09OCT84
	SMITH LAKE	2D1-007	46-23'53"N	91-42'30"W	08NOV84
	SNAG LAKE	2C1-047	45-19'20"N	89-13'10"W	05NOV84
	SNAKE LAKE	2D1-050	46-11'43"N	91-40'05"W	07NOV84
	SOUTH TWIN LAKE	2D3-041	45-16'22"N	90-26'16"W	07NOV84
	SPIDER LAKE	2B1-067	46-32'40"N	91-13'44"W	06NOV84
	SPIRIT LAKE	2C3-027	45-58'00"N	89-12'00"W	31OCT84
	SPRING LAKE	2D2-044	45-35'00"N	92-02'30"W	03NOV84
	SPRUCE LAKE	2C2-055	46-03'12"N	89-34'00"W	09OCT84
	SQUASH LAKE	2C1-037	45-36'00"N	89-33'00"W	08OCT84
	STAR LAKE	2D3-018	46-23'15"N	91-13'15"W	01NOV84
	STARRETT LAKE	2C2-021	46-01'40"N	89-34'25"W	31OCT84
	STEWART LAKE	2C2-060	46-00'55"N	89-23'53"W	30OCT84
	STONE LAKE	2C2-024	46-01'30"N	90-07'15"W	07NOV84
	SULLIVAN LAKE	2D1-047	46-11'15"N	91-46'30"W	13NOV84
	SUNDAY LAKE	2C1-021	45-53'25"N	89-51'20"W	01NOV84
	TANDA LAKE	2D2-019	45-56'48"N	92-16'22"W	28OCT84
	TANK LAKE	2D3-019	46-22'07"N	91-08'10"W	01NOV84
	TAYLOR LAKE	2C2-041	45-54'30"N	89-12'55"W	31OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	TENDERFOOT LAKE	2C3-039	45-40'20"N	89-15'30"W	08NOV84
	THORN LAKE	2D1-043	46-13'30"N	91-39'20"W	12NOV84
	TORCH LAKE	2C1-015	46-01'25"N	89-16'30"W	30OCT84
	TOWANDA LAKE	2C1-020	45-56'30"N	89-42'30"W	01NOV84
	TOWER LAKE	2C2-022	46-07'32"N	89-26'15"W	04NOV84
	TRIPP LAKE	2D3-028	45-54'05"N	91-32'15"W	04NOV84
	TURTLE FLAMBEAU FLOWAGE	2C3-014	46-05'00"N	90-12'00"W	07NOV84
	TWIN LAKES (EASTERN)	2B1-022	46-41'06"N	91-03'30"W	01NOV84
	TWIN LAKES (NORTHERN)	2D1-078	46-21'12"N	91-44'00"W	08NOV84
	TWIN LAKES (SOUTH)	2D2-084	46-11'59"N	91-08'30"W	01NOV84
	TWIN LAKES (SOUTHERN)	2B1-008	46-33'00"N	91-16"30"W	06NOV84
	TWIN LAKES (SOUTHWEST)	2D1-014	46-20'45"N	91-44'20"W	08NOV84
	VENTOR LAKE	2C1-050	45-18'40"N	89-02'55"W	05NOV84
	VIOLA LAKE	2D2-023	45-49'04"N	92-15'00"W	03NOV84
	WANOKA LAKE	2B1-011	46-32'43"N	91-16'55"W	06NOV84
	WARD LAKE	2D2-040	45-45'25"N	92-25'06"W	28OCT84
	WARVET LAKE	2C1-011	46-05'15"N	89-07'05"W	10OCT84
	WEST BASS LAKE	2D3-031	45-46'45"N	88-20'10"W	25OCT84
	WHITE BIRCH LAKE	2C2-020	46-03'45"N	89-31'25"W	09OCT84
	WHITEYE LAKE	2C3-042	45-34'55"N	89-00'00"W	08NOV84
	WILD RICE LAKE	2C3-058	46-03'55"N	89-47'45"W	07NOV84
	WILDWOOD LAKE	2C1-034	45-41'00"N	89-27'50"W	29OCT84
	WINTERGREEN LAKE	2D3-036	45-35'40"N	92-11'13"W	03NOV84
	WISHOW LAKE	2C1-025	45-57'20"N	89-47'30"W	01NOV84
	WRIGHT LAKE	2B2-004	46-31'15"N	91-28'45"W	05NOV84

APPENDIX B

SPECIAL INTEREST LAKES SORTED BY STATE AND LAKE NAME

This Appendix (Table B-1) lists all special interest lakes (those not part of the probability sample), sorted by state and lake name.

The table includes: the name of the state in which the lake is located, the lake name as it appears on the appropriate USGS map, the lake ID, the latitude and longitude (in degrees-minutes-seconds), and the date the lake was sampled.

TABLE B-1. SPECIAL INTEREST LAKES SORTED BY STATE AND LAKE NAME

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA	CHERRY LAKE	3B3-183	30-37'00"N	83-24'53"W	14DEC84
	COMPASS LAKE	3B3-185	30-27'34"N	85-42'37"W	14DEC84
	CRYSTAL LAKE	3B3-184	30-27'14"N	85-42'08"W	14DEC84
	LAKE LUCERNE	3B3-186	28-04'46"N	81-41"03"W	05DEC84
	MAGNOLIA LAKE	3B1-141	29-49'28"N	82-01'07"W	11DEC84
	OCEAN POND	3B3-182	30-13'45"N	82-26'15"W	13DEC84
	SAND HILL (LOWRY) LA	3B1-142	29-50'54"N	82-00'29"W	13DEC84
	TOMAHAWK LAKE	3B1-144	29-07'58"N	81-54'25"W	10DEC84
	WILDCAT LAKE	3B1-143	29-09'54"N	81-37'45"W	09DEC84
GEORGIA	WINFIELD SCOTT LAKE	3A2-064	34-44'21"N	83-58'25"W	26NOV84
MAINE	ANDERSON POND	1E1-131	44-38'52"N	68-03'35"W	22OCT84
	LITTLE LONG POND	1E1-132	44-38'15"N	68-04'41"W	22OCT84
	MUD POND	1E1-134	44-37'59"N	68-05'27"W	22OCT84
	SALMON POND	1E1-135	44-37'53"N	68-05'10"W	22OCT84
	SPRING RIVER LAKE	1E1-136	44-37'10"N	68-03'00"W	22OCT84
	TILDEN POND	1E1-133	44-38'05"N	68-04'20"W	22OCT84
MICHIGAN	BUCKEYE LAKE	2B2-102	46-27'57"N	85-44'19"W	24OCT84
	CAMP EIGHT LAKE	2B2-104	46-35'57"N	85-40'12"W	24OCT84
	CHRIS BROWN LAKE	2B3-084	46-37'34"N	85-30'27"W	23OCT84
	CUSINO LAKE	2B2-105	46-27'16"N	86-15'30"W	20OCT84
	KELLY LAKE	2B3-083	46-26'24"N	85-38'45"W	23OCT84
	MONOCLE LAKE	2B3-081	46-28'30"N	84-38'45"W	22OCT84
	MURRAY LAKE	2B2-101	46-28'15"N	85-42'05"W	24OCT84
	NEVINS LAKE	2B2-106	46-31'00"N	86-14'35"W	20OCT84
	SMOKY LAKE	2C3-061	46-05'45"N	88-56'30"W	10OCT84
	STUART LAKE	2B2-103	46-35'24"N	85-30'35"W	23OCT84
	WARNERS LAKE	2B3-082	46-42'00"N	85-02'25"W	23OCT84

(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA	CRUISER LAKE	2A2-063	48-29'54"N	92-48'19"W	21OCT84
	CRUM LAKE	2D3-072	47-51'50"N	93-18'37"W	13OCT84
	DUNNIGAN LAKE	2A3-088	47-42'30"N	91-37'50"W	08OCT84
	HUSTLER LAKE	2A1-061	48-14'00"N	92-09'30"W	30OCT84
	LOCATOR LAKE	2A2-067	48-32'26"N	93-00'13"W	21OCT84
	LOITEN LAKE	2A2-066	48-31'33"N	92-55'24"W	21OCT84
	LONG LAKE	2A3-087	48-18'25"N	92-43'30"W	21OCT84
	SHOEPACK LAKE	2A2-065	48-30'13"N	92-53'00"W	21OCT84
	SPRING LAKE	2A3-086	48-22'22"N	92-37'48"W	21OCT84
	WEIR LAKE	2A2-064	48-29'47"N	92-44'33"W	21OCT84
NEW HAMPSHIRE	AYERS POND	1C3-077	43-15'00"N	71-03'00"W	30OCT84
	CANAAN STREET LAKE	1C2-076	43-40'00"N	72-02'00"W	23OCT84
	CONTOOCOOK LAKE	1C2-077	42-47'30"N	72-00'30"W	01NOV84
	CRYSTAL LAKE	1C2-078	43-26'30"N	71-18'45"W	30OCT84
	FOREST LAKE	1C3-078	42-47'45"N	72-22'00"W	01NOV84
	GRANITE LAKE	1C1-116	43-01'15"N	72-08'30"W	24OCT84
	HALFMOON LAKE	1C2-079	43-23'30"N	71-13'45"W	30OCT84
	HUBBARD POND	1C2-080	42-46'45"N	71-58'00"W	03NOV84
	LOVELL LAKE	1C3-079	43-32'20"N	71-00'00"W	29OCT84
	ONWAY LAKE	1C2-081	43-02'30"N	71-13'15"W	30OCT84
	PEA PORRIDGE POND	1C1-117	43-56'28"N	71-07'15"W	25OCT84
	PROVINCE LAKE	1C1-118	43-41'30"N	71-00'00"W	29OCT84
	SAND POND	1C1-119	43-10'45"N	72-10'00"W	24OCT84
	SILVER LAKE	1C1-120	43-52'00"N	71-10'30"W	25OCT84
	SWAIN'S LAKE	1C3-080	43-11'30"N	71-03'00"W	30OCT84
	WEARE RESERVOIR	1C1-102	43-05'45"N	71-47'30"W	01NOV84
	WHITEOAK POND	1C2-082	43-43'05"N	71-33'30"W	24OCT84
NEW JERSEY	BUTLER RESERVOIR	1B3-080	41-01'45"N	74-23'07"W	16NOV84

(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW JERSEY (cont)	CLINTON RESERVOIR	1B3-079	41-05'00"N	74-27'15"W	16NOV84
	CLYDE POTTS RESERVOIR	1B3-077	40-49'22"N	74-35'00"W	16NOV84
	FAIRVIEW LAKE	1B3-071	41-04'35"N	74-54'45"W	18NOV84
	GREEN POND	1B3-073	41-00'07"N	74-30'00"W	16NOV84
	HANKS POND	1B3-075	41-05'00"N	74-26'15"W	16NOV84
	LAKE DENMARK	1B3-076	40-58'15"N	74-31'00"W	16NOV84
	LAKE MARCIA	1B3-072	41-19'03"N	74-40'02"W	18NOV84
	LAKE OWASSA	1B3-070	41-09'15"N	74-48'45"W	18NOV84
	RAMAPO LAKE	1B3-074	41-02'15"N	74-16'00"W	16NOV84
	SAWMILL POND	1B3-069	41-17'37"N	74-41'15"W	18NOV84
	SPLITROCK RESERVOIR	1B3-078	40-59'00"N	74-26'15"W	16NOV84
NEW YORK	(UPPER)LOOMIS POND	1A2-070	43-18'15"N	74-29'40"W	30OCT84
	BARNES LAKE	1A2-076	43-34'00"N	75-13'40"W	16OCT84
	BIG MOOSE LAKE	1A1-103	43-49'45"N	74-51'00"W	16OCT84
	BREWER LAKE	1A3-069	43-35'32"N	75-05'15"W	16OCT84
	BUBB LAKE	1A1-113	43-46'15"N	74-51'15"W	14OCT84
	CASCADE LAKE	1A1-105	43-47'28"N	74-48'15'W	14OCT84
	CEDAR LAKES	1A1-099	43-37'15"N	74-33'00"W	30OCT84
	CLEAR POND	1A2-077	44-00'00"N	73-49'20"W	12OCT84
	CLOCKMILL POND	1A2-073	43-20'25"N	74-35'15"W	31OCT84
	CROOKED LAKE	1A1-097	43-59'40"N	74-56'20"W	25OCT84
	CURTIS POND	1A1-100	44-09'35"N	74-45'37"W	13OCT84
	DART LAKE	1A1-106	43-47'50"N	74-51'30"W	14OCT84
	DEEP LAKE	1A1-084	43-37'10"N	74-39'48"W	30OCT84
	DIAMOND LAKE	1A2-074	43-18'25"N	74-43'50"W	31OCT84
	EAST CHARLEY POND	1A1-101	44-02'45"N	74-41'00"W	25OCT84
	EAST POND	1A1-098	44-22'50"N	74-25'50"W	11OCT84
	FISH POND	1A1-092	44-23'37"N	74-22'15"W	11OCT84
	GAL POND	1A1-093	44-02'40"N	74-53'40"W	24OCT84

(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	HEART LAKE	1A1-102	44-10'56"N	73-58'10"W	12OCT84
	HITCHINS POND	1A1-094	44-00'37"N	74-54'20"W	25OCT84
	HOLMES LAKE	1A2-075	43-11'22"N	74-25'55"W	04NOV84
	JOCKEYBUSH LAKE	1A2-066	43-18'15"N	74-35'45"W	04NOV84
	JONES POND	1A1-091	44-27'08"N	74-11'15"W	11OCT84
	LAKE RONDAXE	1A1-110	43-45'50"N	74-54'20"W	14OCT84
	LITTLE ECHO POND	1A1-107	44-18'20"N	74-21'27"W	12OCT84
	MECO LAKE	1A2-067	43-17'00"N	74-25'33"W	31OCT84
	MERRIAM POND	1A1-108	43-51'28"N	74-50'45"W	14OCT84
	MINNOW POND	1A1-076	43-52'53"N	74-26'15"W	15OCT84
	MOSS LAKE	1A1-109	43-47'10"N	74-51'00"W	14OCT84
	OTTER LAKE	1A2-078	43-11'17"N	74-30'00"W	31OCT84
	PILLSBURY LAKE	1A1-077	43-35'50"N	74-32'00"W	30OCT84
	QUEER LAKE	1A1-089	43-48'40"N	74-48'00"W	14OCT84
	ROCK LAKE	1A2-068	43-19'42"N	74-35'30"W	31OCT84
	SAND POND	1A2-072	43-56'58"N	75-09'40"W	24OCT84
	SILVER LAKE	1A1-078	43-50'38"N	74-54'45"W	14OCT84
	SILVER LAKE	1A2-069	43-17'43"N	74-25'50"W	31OCT84
	SOUTH LAKE	1A1-079	43-35'13"N	74-37'45"W	30OCT84
	SPRUCE LAKE	1A1-080	43-32'00"N	74-36'37"W	30OCT84
	SQUASH POND	1A1-111	43-49'35"N	74-53'23'W	16OCT84
	STEPHEN'S POND	1A1-081	43-49'10"N	74-25'00"W	15OCT84
	STREETER LAKE	1A2-071	44-06'28"N	75-04'20"W	24OCT84
	THIRSTY POND	1A1-082	43-49'22"N	74-54'20"W	14OCT84
	TOAD POND	1A1-095	44-01'10"N	74-56'00"W	24OCT84
	TOWNSEND POND	1A1-086	43-48'50"N	74-50'22"W	16OCT84
	WEST LAKE	1A1-083	43-45'20"N	74-55'15"W	14OCT84
	WEST POND	1A1-112	43-48'40"N	74-52'45"W	14OCT84
	WHIPPLE POND	1A1-090	44-22'36"N	74-18'09"W	12OCT84
	WOODRUFF POND	1A1-088	43-57'54"N	74-08'45"W	15OCT84

(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NORTH CAROLINA	CHATUGE LAKE	3A3-101	35-00'45"N	83-47'15"W	20NOV84
	MARS HILL LAKE	3A2-066	35-56'40"N	82-29'40"W	21NOV84
	PRICE LAKE	3A2-065	36-08'15"N	81-44'00"W	21NOV84
	RAVENEL(CULLASAJA)L.	3A2-061	35-05'07"N	83-09'40"W	25NOV84
	SANTEETLAH LAKE	3A2-062	35-22'00"N	83-52'30"W	20NOV84
	THUNDER LAKE	3A2-063	35-07'50"N	82-39'55"W	29NOV84
	WOLF CREEK RESERVOIR	3A3-104	35-16'05"N	82-58'10"W	25NOV84
TENNESSEE	MILLER LAKE	3A3-102	36-10'42"N	82-09'23"W	21NOV84
	WATAUGA LAKE	3A3-103	36-19'40"N	82-05'00"W	29NOV84
VERMONT	BEAVER POND	1C1-107	45-00'20"N	71-56'30"W	18OCT84
	BEEBE POND	1C1-099	43-03'12"N	73-01'58"W	07NOV84
	BIG MUDDY POND	1C1-108	44-45'20"N	72-36'00"W	29OCT84
	BRANCH POND	1C1-101	43-04'52"N	73-01'07"W	07NOV84
	COLE POND	1C3-081	43-08'55"N	72-48'20"W	06NOV84
	COW MTN. POND	1C2-075	44-33'40"N	71-42'10"W	25OCT84
	FORESTER POND	1C3-076	43-04'54"N	72-52'05"W	23OCT84
	GRIFFITH LAKE	1C1-109	43-18'08"N	72-57'35"W	06NOV84
	GROUT POND	1C1-090	43-02'44"N	72-56'45"W	07NOV84
	HARDWOOD POND	1C1-091	44-28'05"N	72-30'00"W	29OCT84
	HAYSTACK POND	1C1-110	42-55'00"N	72-55'00"W	06NOV84
	HOLLAND POND	1C1-111	44-59'10"N	71-55'45"W	18OCT84
	HOWE POND	1C1-112	42-47'08"N	72-59'15"W	07NOV84
	LAKE MANSFIELD	1C1-105	44-28'20"N	72-49'00"W	29OCT84
	LAKE NINEVAH	1C2-072	43-28'15"N	72-45'30"W	23OCT84
	LILY POND	1C1-092	43-14'03"N	72-45'05"W	23OCT84
	LITTLE AVERILL POND	1C1-103	44-57'18"N	71-43'00"W	18OCT84
	LITTLE POND	1C1-093	42-55'30"N	73-03'55"W	06NOV84
	LITTLE POND	1C1-094	43-07'25"N	72-56'30"W	06NOV84

(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
VERMONT (cont)	LITTLE ROCK POND	1C1-104	43-24'00"N	72-57'20"W	06NOV84
	MOSES POND	1C1-115	43-20'03"N	72-50'35"W	06NOV84
	OSMORE POND	1C2-073	44-18'30"N	72-16'45"W	25OCT84
	PIGEON POND	1C2-071	44-14'45"N	72-19'45"W	29OCT84
	SOMERSET RESERVOIR	1C1-113	43-00'00"N	72-56'20"W	23OCT84
	SOUTH POND	1C3-075	42-50'38"N	72-42'45"W	06NOV84
	STAMFORD POND	1C1-095	42-49'20"N	73-03'55"W	07NOV84
	STERLING POND	1C1-114	44-33'22"N	72-46'28"W	29OCT84
	STRATTON POND	1C1-096	43-06'15"N	72-58'10"W	07NOV84
	SUCKER POND	1C1-106	42-49'30"N	73-07'45"W	07NOV84
	SUNSET LAKE	1C1-097	42-55'10"N	72-41'00"W	06NOV84
	UNKNOWN POND	1C1-098	44-54'35"N	71-50'40"W	18OCT84
	WHEELER POND	1C2-074	44-42'30"N	71-38'30"W	25OCT84
WISCONSIN	ALDRIDGE LAKE	2C2-064	45-51'55"N	89-18'05"W	31OCT84
	BIG CROOKED LAKE	2C3-062	46-02'00"N	89-51'25"W	06NOV84
	BROWN LAKE	2C2-065	45-46'50"N	89-29'30"W	27OCT84
	CAMP TEN LAKE	2C1-066	45-59'50"N	89-23'05"W	30OCT84
	CAMP TWELVE LAKE	2C1-075	45-59'03"N	89-22'14"W	04NOV84
	CHAIN LAKE	2C3-063	45-50'30"N	89-22'05"W	31OCT84
	CLEAR LAKE	2C1-074	45-22'00"N	89-13'50"W	05NOV84
	CRYSTAL LAKE	2C1-070	46-00'05"N	89-36'45"W	30OCT84
	DOG LAKE	2C3-064	45-46'45"N	89-06'30"W	10OCT84
	DUCK LAKE	2C1-061	45-22'50"N	89-14'45"W	08NOV84
	ELNA LAKE	2C1-067	45-41'36"N	89-34'05"W	27OCT84
	FINLEY LAKE	2C2-061	45-54'40"N	89-25'00"W	31OCT84
	FOUND LAKE	2C2-066	45-57'05"N	89-27'10"W	31OCT84
	GREATER BASS LAKE	2C1-065	45-21'25"N	89-11'30"W	05NOV84
	HARMONY LAKE	2C3-065	45-57'10"N	89-11'20"W	31OCT84
	ISLAND LAKE	2C3-066	45-49'45"N	89-07'55"W	10OCT84

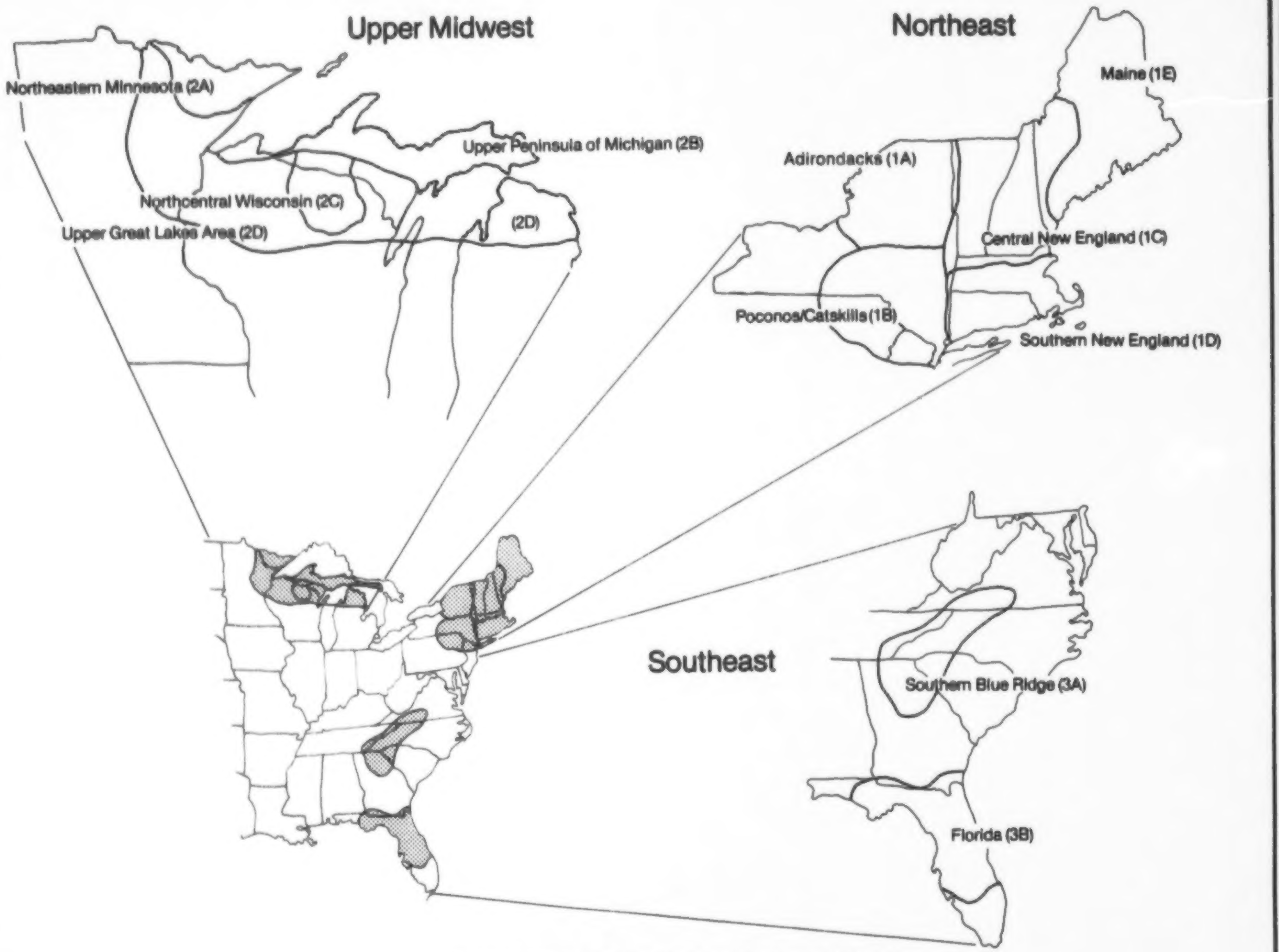
(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	LITTLE ROCK LAKE	2C1-071	45-59'55"N	89-42'15"W	30OCT84
	LONG LAKE	2C1-073	45-43'00"N	89-36'15"W	07NOV84
	LUNA LAKE	2C2-062	45-54'19"N	88-57'35"W	10OCT84
	MIDGE(LARRAINE)LAKE	2C1-072	46-00'05"N	89-41'40"W	30OCT84
	MOON LAKE	2C2-067	45-55'05"N	89-26'05"W	31OCT84
	NICHOLS LAKE	2C1-069	46-06'14"N	89-41'15"W	09OCT84
	OTTER LAKE	2C3-067	45-26'30"N	89-32'45"W	08OCT84
	PLUMMER LAKE	2C3-068	45-58'10"N	89-46'30"W	01NOV84
	SAND LAKE	2C1-068	45-43'28"N	89-39'05"W	27OCT84
	SHISHEBOGAMA LAKE	2C3-069	45-53'55"N	89-49'15"W	07NOV84
	SUGAR CAMP LAKE	2C2-063	45-48'00"N	89-18'15"W	31OCT84
	SUMMIT LA	2C1-062	45-22'30"N	89-12'25"W	05NOV84
	SUNSET LAKE	2C1-063	45-55'35"N	89-20'15"W	30OCT84
	TROSTEL LAKE	2C3-070	46-16'13"N	89-54'40"W	06NOV84
	VANDERCOOK LAKE	2C1-064	45-58'55"N	89-41'13"W	30OCT84

★U.S. GOVERNMENT PRINTING OFFICE:1986-646-116/40614 REGION NO. 4

Insert Cover 3


Upper Midwest
Northeast
Southeast
Northeastern Minnesota (2A)
Upper Peninsula of Michigan (2B)
Northcentral Wisconsin (2C)
Upper Great Lakes Area (2D)
(2D)
Adirondacks (1A)
Maine (1E)
Central New England (1C)
Poconos/Catskills (1B)
Southern New England (1D)
Southern Blue Ridge (3A)
Florida (3B)

Regions and Subregions, Eastern Lake Survey-Phase I